

Columbia University
Bulletin of Information

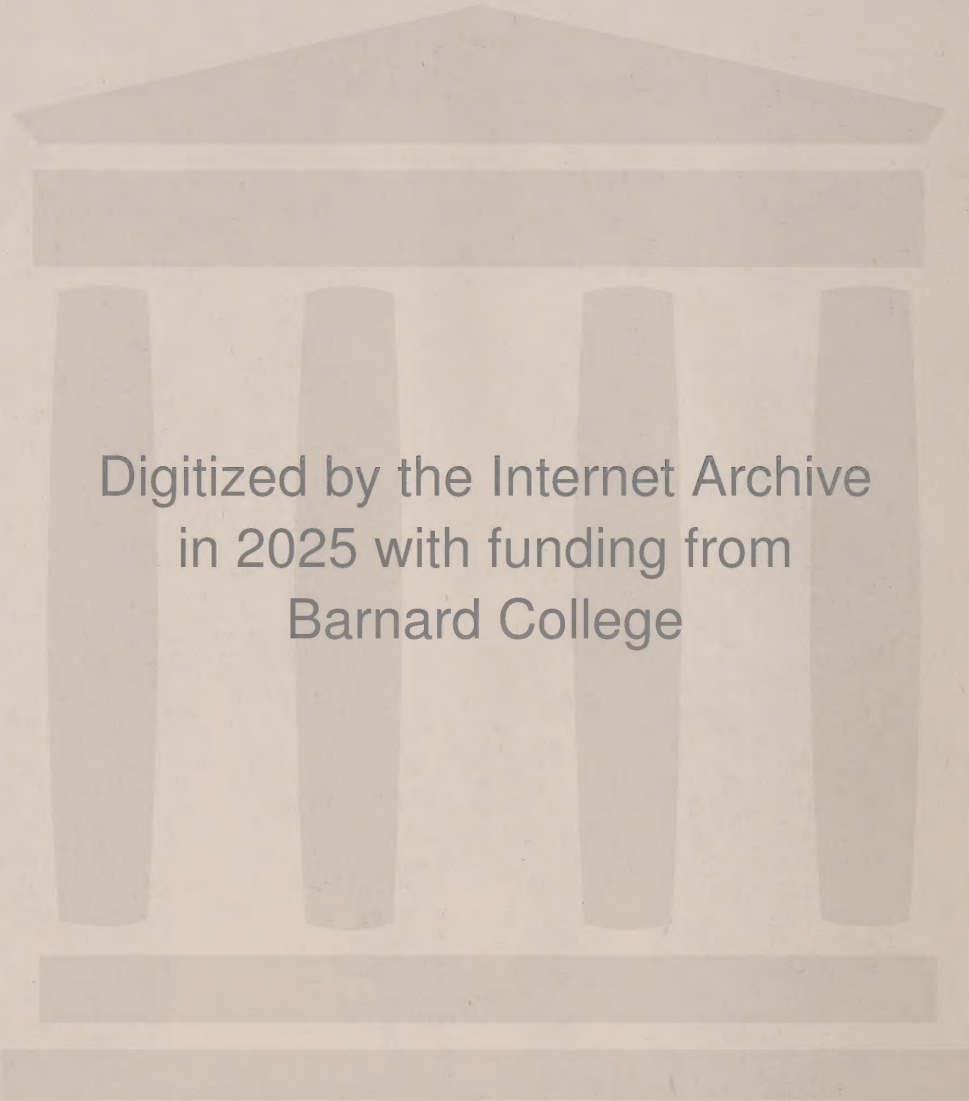


BARNARD COLLEGE

ANNOUNCEMENT

1968-1969





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Barnard College

BARNARD COLLEGE

THE UNDERGRADUATE COLLEGE

OF LIBERAL ARTS

FOR WOMEN

OF

Columbia University

1968-1969

MORNINGSIDE HEIGHTS

NEW YORK, N.Y. 10027

COMMUNICATION WITH THE COLLEGE

The post office address is Barnard College, 606 West 120th Street, New York, N.Y. 10027. The telephone number is (Area Code 212) 280-1754.

Inquiries should be addressed as follows:

General matters pertaining to the College; gifts or bequests: the General Secretary

Admission to the freshman class or with advanced standing; information about financial aid for entering students; requests for catalogues: the Director of Admissions

Financial aid and loan funds for students in college; notice of withdrawal: the Dean of Studies

Academic work of students: the Class Advisers

Health: the College Physician

Housing; student activities: the Director of College Activities

Opportunities for self-help; recommendations for employment: the Placement Office

Payment of college bills: the Bursar

Requests for transcripts: the Registrar

Alumnae: the Executive Secretary of the Associate Alumnae

Public relations: the Director of Public Relations

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SEPTEMBER, 1968

S	M	T	W	T	F	S
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CALENDAR

FOR 1968-1969

OCTOBER, 1968

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FEBRUARY, 1969

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JUNE, 1969

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NOVEMBER, 1968

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MARCH, 1969

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JULY, 1969

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DECEMBER, 1968

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APRIL, 1969

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AUGUST, 1969

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JANUARY, 1969

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MAY, 1969

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18	19	20	21	22	23	24
25	26	27	28	29	30	31

SEPTEMBER, 1969

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21	22	23	24	25	26	27
28	29	30				

I. College Calendar 1968–1969

- Aug.** **1** Thursday. Last day for refund of Autumn Term deposit.
- Sept.** **3** Tuesday. Final payments due, Autumn Term.
- 23** Monday, through Sept. 25, Wednesday. Registration in person for Autumn Term. Deferred examinations.
- 26** Thursday. Autumn Term, eightieth year begins. Classes begin 9 a.m. Convocation, 1 p.m.
- Oct.** **4** Friday. Last day for changing program, Autumn Term.
- 25** Friday. Last day for filing statement of candidacy for the degree in February 1969.
- Nov.** **5** Tuesday. Election Day. Holiday.
- 13** Wednesday. Midterm date.
- 26** Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.
- 28** Thursday through Dec. 1, Sunday. Thanksgiving holidays.
- Dec.** **2** Monday. Last day for refund of Spring Term deposit.
- 3** Tuesday. Required meetings for planning programs.
- 13** Friday. Last day for dropping a course or point, Autumn Term.
- 21** Saturday, through Jan. 5, 1969, Sunday. Christmas holidays. Residence halls closed.
- Jan.** **8** Wednesday, through Jan. 10, Friday. Major examinations for February graduates.
- 12** Sunday. Annual Commemoration Service in St. Paul's Chapel.
- 15** Wednesday. Final payments due, Spring Term.
- 20** Monday. Midyear examinations begin.
- 30** Thursday. Autumn Term ends.
- Feb.** **3** Monday and Feb. 4, Tuesday. Registration in person for Spring Term.
- 5** Wednesday. Spring Term begins. Classes begin 9 a.m.
- 7** Friday. Last day for filing applications for financial aid.
- 14** Friday. Last day for changing program, Spring Term.

BARNARD COLLEGE

- Feb.** **21** Friday. Last day for filing statement of candidacy for the degree in June 1969.
- 22** Saturday. Washington's Birthday. Holiday.
-
- Mar.** **5** Wednesday, through Mar. 7, Friday. Deferred examinations for students absent from the January 1969 series.
- 28** Friday. Midterm date.
- 29** Saturday, through Apr. 6, Sunday. Spring holidays.
-
- Apr.** **11** Friday. Last day for dropping a course or point, Spring Term.
- 23** Wednesday, through Apr. 25, Friday. Major examinations for June and October graduates.
- 29** Tuesday. Required meetings for planning programs.
-
- May** **9** Friday. Last day for filing statement of candidacy for the degree in October 1969.
- 19** Monday. Final examinations begin.
- 29** Thursday. Spring Term ends.
-
- June** **1** Sunday. Baccalaureate Service.
- 3** Tuesday. Conferring of degrees.
-
- Sept.** **25** Thursday. Autumn Term, 1969, eighty-first year begins. Classes begin 9 a.m. Convocation, 1 p.m.

II. Organization

TRUSTEES OF BARNARD COLLEGE

WALLACE S. JONES, *Chairman*

FRANCES T. P. PLIMPTON, *Vice-Chairman*

ROBERT L. HOGUET, JR., *Vice-Chairman*

MRS. FRANK ALTSCHUL, *Clerk*

HENRY CHAUNCEY

WALTER J. P. CURLEY, JR.

MRS. JOHN ELLIOTT, JR.

RICHARD M. FURLAUD

MRS. WILLIAM T. GOSSETT

JEROME S. HARDY

MRS. IOLA S. HAVERSTICK

ROBERT S. HUTCHINS

PRESIDENT GRAYSON KIRK, *ex officio*

WILLIAM H. MATHERS

SAMUEL R. MILBANK

MISS MARTHA PETERSON

MRS. SYDNEY S. SPIVACK

MRS. ARTHUR H. SULZBERGER

MRS. FREDERICK J. WOODBRIDGE

MRS. BRUNO V. BITKER, *Alumnae Trustee*

MRS. PAUL H. FLINT, *Alumnae Trustee*

MRS. N. LAWRENCE HERRICK, *Alumnae Trustee*

MRS. JOHN R. SARGENT, *Alumnae Trustee*

MRS. OGDEN REID, *Trustee Emeritus*

Faculty Representatives to Meet with Trustees

PROFESSOR JOSEPH G. BRENNAN

PROFESSOR HELEN H. BACON

BARNARD COLLEGE

THE FACULTY OF BARNARD COLLEGE

GRAYSON KIRK, 1952, President of the University

A.B., Miami; M.A., Clark; Ph.D., Wisconsin; LL.D.

MARTHA PETERSON, 1967, President of Barnard College and Dean in the University

A. B., M.A., Ph.D., Kansas

HENRY A. BOORSE, 1937, Dean of the Faculty and Professor of Physics

B.S., United States Naval Academy; M.A., Ph.D., Columbia

HELEN PHELPS BAILEY, 1933, Dean of Studies and Professor of French

A.B., Barnard; M.A., Ph.D., Columbia

BARBARA S. SCHMITTER, 1957, Associate Dean of Studies and Associate Professor of Psychology

A.B., Nebraska; M.A., Columbia

MARIE-THÉRÈSE D'ALVERNY, 1968, Virginia C. Gildersleeve Visiting Professor of Art History

¹LAURA R. DE GARCÍA-LORCA, 1968, Visiting Associate Professor of Spanish

Lic. en F., Madrid; Ph.D., Columbia

²JOSÉ OLIVIO JIMÉNEZ, 1967, Visiting Professor of Spanish

Dr. en Fil. y Let., Madrid

²MICHAEL PORT, 1968, Visiting Associate Professor of History

A.B., B.Litt., Oxford

GEORGE STRIČEVIĆ, 1968, Visiting Assistant Professor of Art History

Ph.D., Serbian Academy of Sciences and Fine Arts

RENÉ ALBRECHT-CARRIÉ, 1945, Professor of History

A.B., M.A., Ph.D., Columbia

ROBERTA TOOLE ASH, Assistant Professor of Sociology

A.B., Ph.D., University of Chicago

³HELEN H. BACON, 1961, Professor of Greek and Latin

A.B., Ph.D., Bryn Mawr

BERNARD BARBER, 1952, Professor of Sociology

A.B., M.A., Ph.D., Harvard

JAMES BARROS, 1967, Associate Professor of Government

A.B., M.I.A., Ph.D., Columbia

The dates refer to the beginning of service in the College and not necessarily to the assumption of the current title.

¹ Spring Term 1968-69.

² Autumn Term 1968-69.

³ Absent on leave, 1968-69.

THE FACULTY

- ANNETTE K. BAXTER, 1952, Associate Professor of History
A.B., Barnard; M.A., Smith, Radcliffe; Ph.D., Brown
- BRIGITTE L. BRADLEY, 1962, Associate Professor of German
A.B., William and Mary; D. d'Université, Strasbourg; M.A., Ph.D.,
Columbia
- JOSEPH GERARD BRENNAN, 1947, Professor of Philosophy
A.B., Boston College; M.A., Harvard; Ph.D., Columbia
- LE ROY C. BREUNIG, 1953, Professor of French
A.B., DePauw; Ph.D., Cornell
- MALCOLM SPENCER BROWN, 1967, Assistant Professor of Philosophy
A.B., Amherst; M.A., Ph.D., Columbia
- ¹DEMETRIOS CARALEY, 1961, Professor of Government
A.B., Ph.D., Columbia
- AUDREY CHAPMAN, 1965, Assistant Professor of Government
A.B., Wellesley; M.A., Ph.D., Columbia
- JOY CHUTE, 1964, Adjunct Associate Professor of English
- EDWARD S. COBB, 1963, Assistant Professor of Psychology
A.B., M.A., Ph.D., Columbia
- ²WILLIAM A. CORPE, 1956, Professor of Biology
A.B., M.A., Wisconsin; Ph.D., Pennsylvania State
- BETTE STUBING DENITCH, 1968, Assistant Professor of Anthropology
A.B., Antioch; Ph.D., California
- HUBERT DORIS, 1957, Associate Professor of Music
A.B., Harvard; M.A., Columbia
- PATRICIA L. DUDLEY, 1959, Associate Professor of Biology
A.B., M.A., Colorado; Ph.D., Washington
- DAVID W. EHRENFELD, 1967, Assistant Professor of Biology
A.B., M.D., Harvard; Ph.D., Florida
- JOHN T. ELLIFF, 1967, Assistant Professor of Government
A.B., De Pauw; M.A., Ph.D., Harvard
- PATRICIA N. FARNSWORTH, 1967, Assistant Professor of Biology
A.B., Morningside; M.S., Ph.D., Columbia
- ³EUGENIO FLORIT, 1945, Professor of Spanish
D. en D., Havana

¹ Absent on leave, 1968-69.

² Joint appointment with Columbia.

³ Absent on leave, Spring Term.

BARNARD COLLEGE

ANTONIO FRANCESCHETTI, 1964, Assistant Professor of Italian
Làurea in Lettere, University of Padua; Ph.D., Columbia

PATRICK X. GALLAGHER, 1965, Professor of Mathematics
A.B., Harvard; Ph.D., Princeton

THEODOR H. GASTER, 1966, Professor of Religion
A.B., M.A., London; Ph.D., Columbia; D.D., Vermont

SERGE GAVRONSKY, 1960, Assistant Professor of French
A.B., M.A., Ph.D., Columbia

RENÉE GEEN, 1956, Associate Professor of French
A.B., Brooklyn; M.A., Wisconsin; Ph.D., Columbia

MARION HAMILTON GILLIM, 1952, Professor of Economics
A.B., Mount Holyoke; M.A., Ph.D., Columbia

PATRICIA ALBJERG GRAHAM, 1965, Associate Professor of Education
B.S., M.S., Purdue; Ph.D., Columbia

TATIANA GREENE, 1946, Assistant Professor of French
Candid. en Droit, Brussels; M.A., Ph.D., Columbia

RICHARD F. GUSTAFSON, 1965, Associate Professor of Russian
A.B., Yale; Ph.D., Columbia

ELIZABETH HARDWICK, 1965, Adjunct Associate Professor of English
A.B., M.A., Kentucky

VIRGINIA D. HARRINGTON, 1942, Professor of History
A.B., Barnard; M.A., Ph.D., Columbia

¹JULIUS S. HELD, 1937, Professor of Art History
Ph.D., Freiburg

ANTHONY G. HENDERSON, 1964, Assistant Professor of English
A.B., Harvard; B.A., Cambridge; Ph.D., Columbia

KENNETH H. JANES, 1961, Associate Professor of English and Director of Minor
Latham Playhouse

PETER H. JUVILER, 1964, Associate Professor of Government
B.E., M.E., Yale; M.A., Ph.D., Columbia

CATHERINE MCA. KELLEHER, 1967, Assistant Professor of Government
A.B., Mount Holyoke; Ph.D., M.I.T.

EDWARD J. KING, 1946, Professor of Chemistry
A.B., State University of Iowa; Ph.D., Yale

²RUTH M. KIVETTE, 1952, Associate Professor of English
A.B., Barnard; M.A., Ph.D., Columbia; B.D., Union Theological
Seminary

¹ Absent on leave, Spring Term.

² Absent on leave, 1968-69.

- MORTON KLOSS, 1965, Associate Professor of Anthropology
A.B., Brooklyn; Ph.D., Columbia
- MIRRA KOMAROVSKY, 1934, Professor of Sociology
A.B., Barnard; M.A., Ph.D., Columbia
- STEPHEN E. KOSS, 1966, Assistant Professor of History
A.B., M.A., Ph. D., Columbia
- JOHN KOUWENHOVEN, 1946, Professor of English
A.B., Wesleyan; M.A., Ph.D., Columbia
- ¹POLYKARP KUSCH, 1962, Professor of Physics
B.S., Case Institute; M.S., Ph.D., Illinois; Nobel Laureate; Sc.D.
- SUE HOWARD LARSON, 1965, Associate Professor of Philosophy
A.B., Ph.D., Stanford
- LYDIA H. LENAGHAN, 1962, Assistant Professor of Greek and Latin
A.B., Barnard; M.A., Ph.D., Bryn Mawr
- MARISTELLA DE PANIZZA LORCH, 1951, Professor of Italian
Dott. in Lett. e Filos, Rome
- JOSEPH L. MALONE, 1967, Assistant Professor of Linguistics
A.B., M.A., Ph.D., California
- BARBARA MATES, 1962, Assistant Professor of Psychology
A.B., M.A., Brooklyn; M.A., Ph.D., Columbia
- JOHN MESKILL, 1960, Associate Professor of Chinese and Japanese
A.B., Harvard; Ph.D., Columbia
- GLADYS MEYER, 1948, Associate Professor of Sociology
A.B., Wellesley; Ph.D., Columbia
- DEBORAH D. MILENKOVITCH, 1965, Assistant Professor of Economics
A.B., Radcliffe; Ph.D., Columbia
- ELLEN MOERS, 1968, Adjunct Assistant Professor of English
A.B., Vassar; M.A., Radcliffe; Ph.D., Columbia
- ¹JOHN A. MOORE, 1943, Professor of Biology
A.B., M.A., Ph.D., Columbia
- JOANN RYAN MORSE, 1957, Assistant Professor of English
A.B., Vassar; M.A., Yale
- MARY MOTHERSILL, 1963, Professor of Philosophy
A.B., Toronto; M.A., Ph.D., Radcliffe
- RICHARD A. NORMAN, 1954, Associate Professor of English
A.B., George Washington; M.A., Ph.D., Columbia

¹ Joint appointment with Columbia.

BARNARD COLLEGE

- BARBARA NOVAK, 1958, Associate Professor of Art History
A.B., Barnard; M.A., Ph.D., Radcliffe
- DOROTHEA NYBERG, 1968, Associate Professor of Art History
A.B., Toronto; M.A., Ph.D., New York University
- MARIA MARCH DE ORTI, 1965-67; 1968, Assistant Professor of Spanish
A.B., California; M.A., Washington; Ph.D., Columbia
- REMINGTON P. PATTERSON, 1955, Associate Professor of English
A.B., M.A., Ph.D., Yale
- THOMAS B. PERERA, 1966, Assistant Professor of Psychology
A.B., M.A., Ph.D., Columbia
- MARION R. PHILIPS, 1945-55; 1958, Assistant Professor of Physical Education
A.B., Hunter; M.A., Columbia
- ANNE LAKE PRESCOTT, 1959-62; 1963, Assistant Professor of English
A.B., Barnard; M.A., Ph.D., Columbia
- BASIL RAUCH, 1941, Professor of History
A.B., Notre Dame; Ph. D., Columbia
- HERMINE RIFFATERRE, 1961, Assistant Professor of French
A.B., Hunter; M.A., Columbia; B. es L., Toulouse; Ph.D., Columbia
- DONALD D. RITCHIE, 1948, Professor of Biology
A.B., B.S., Furman; M.A., Ph.D., North Carolina
- DAVID A. ROBERTSON, JR., 1940, Millicent Carey McIntosh Professor of English
A.B., M.A., Ph.D., Princeton
- ELEANOR ROSENBERG, 1953, Professor of English
A.B., Barnard; M.A., Ph.D., Columbia
- ABRAHAM ROSMAN, 1966, Associate Professor of Anthropology
A.B., City University of New York; Ph.D., Yale
- PAULA G. RUBEL, 1965, Assistant Professor of Anthropology
A.B., Hunter; Ph.D., Columbia
- RUTH L. RUTSCHMANN, 1965, Adjunct Assistant Professor of Psychology
A.B., Skidmore; M.A., Ph.D., New School for Social Research
- ¹GERTRUDE M. SAKRAWA, 1952, Assistant Professor of German
M.A., Columbia; Ph.D., Vienna, Columbia
- RAYMOND J. SAULNIER, 1938, Professor of Economics
B.S., Middlebury; M.A., Tufts; Ph.D., Columbia; LL.D., Middlebury,
Babson Institute
- BERNICE SEGAL, 1958, Assistant Professor of Chemistry
A.B., Radcliffe; Ph.D., Columbia

¹ Absent on leave, 1968-69.

- MIRELLA D'AMBROSIO DE SERVODIDIO, 1964, Assistant Professor of Spanish
A.B., Barnard; M.A., Ph.D., Columbia
- MAURICE Z. SHRODER, 1965, Associate Professor of French
B.S., Northwestern; M.A., Ph.D., Harvard
- JOHN B. SNOOK, 1968, Assistant Professor of Religion
A.B., Harvard; B.D., Union Theological Seminary; Ph.D., Columbia
- HAROLD STAHLER, 1957, Professor of Religion
A.B., Dartmouth; B.D., Union Theological Seminary; Ph.D., Cambridge
- EMMA DIETZ STECHER, 1945, Professor of Chemistry
A.B., Barnard; M.A., Columbia; Ph.D., Bryn Mawr
- CATHARINE R. STIMPSON, 1963, Assistant Professor of English
A.B., Bryn Mawr; B.A., Cambridge; Ph.D., Columbia
- ¹WALTER C. STRODT, 1962, Professor of Mathematics
A.B., M.A., Ph.D., Columbia
- HOWARD M. TEICHMANN, 1946, Adjunct Professor of English
A.B., Wisconsin
- ELEANOR M. TILTON, 1950, Professor of English
A.B., Mount Holyoke; M.A., Boston; Ph.D., Columbia
- MARGARITA UCELAY, 1943, Professor of Spanish
Bach. Instituto-Escuela de Madrid; M.A., Ph.D., Columbia
- BARRY ULANOV, 1951, Professor of English
A.B., Ph.D., Columbia; Litt.D., Villanova
- JOAN E. VINCENT, 1968, Assistant Professor of Anthropology
B.Sc., London School of Economics; M.A., Chicago; Ph.D., Columbia
- FREDERICK E. WARBURTON, 1963, Associate Professor of Biology
B.Sc., M.Sc., Ph.D., McGill
- SUZANNE F. WEMPLE, 1966, Assistant Professor of History
A.B., California; M.L.S., Ph.D., Columbia
- JEAN WILBURN, 1965, Assistant Professor of Economics
A.B., California; M.A., Ph.D., Columbia
- ²CHILTON WILLIAMSON, 1942, Professor of History
A.B., M.A., Ph.D., Columbia
- ³GEORGE WOODBRIDGE, 1960, Associate Professor of History
A.B., M.A., Columbia; Ph.D., Wisconsin
- RICHARD YOUTZ, 1937, Professor of Psychology
A.B., Carleton; Ph.D., Yale

¹ Joint appointment with Columbia.

² Absent on leave, Spring Term.

³ Absent on leave, 1968-69.

BARNARD COLLEGE

¹LEONARD ZOBLER, 1955, Professor of Geography
B.S., M.S., Washington State; Ph.D., Columbia

FORREST L. ABBOTT, 1953, Treasurer and Controller
B.S., Southwest Missouri State Teachers; M.A., Ed.D., Columbia

ROBERT B. PALMER, 1967, Librarian
M.A., Middlebury; M.S., Simmons

HELEN LAW, 1952, Registrar and Secretary to the Faculty
A.B., New Rochelle

MARJORY J. NELSON, 1948, College Physician
A.B., Barnard; M.D., Cornell

JEAN T. PALMER, 1946, General Secretary
A.B., Bryn Mawr

FACULTY EMERITI

WILLIAM HALLER, 1909–1950, Professor Emeritus of English
Ph.D., L.H.D.

FLORENCE DE LOISELLE LOWTHER, 1914–1950, Professor Emeritus of Zoology
Ph.D.

ELIZABETH FAULKNER BAKER, 1919–1952, Professor Emeritus of Economics
Ph.D.

HUGH WILEY PUCKETT, 1916–1953, Professor Emeritus of German
Ph.D.

HELEN R. DOWNES, 1933–1960, Professor Emeritus of Chemistry
Ph.D.

AMELIA A. DE DEL RÍO, 1930–1962, Professor Emeritus of Spanish
Ph.D.

MILLICENT C. MC INTOSH, 1947–1962, President Emeritus
Ph.D., LL.D., Litt.D., L.H.D.

MARGARET HOLLAND, 1926–1964, Professor Emeritus of Physical Education
M.A.

THOMAS P. PEARDON, 1923–1965, Professor Emeritus of Government
Ph.D.

W. CABELL GREET, 1926–1966, McIntosh Professor Emeritus of English
Ph.D., Litt.D.

ESTHER GREENE, 1944–1967, Librarian Emeritus
A.B., B.S.

¹ Absent on leave, 1968–69.

LUCYLE HOOK, 1948–1967, Professor Emeritus of English
Ph.D.

MARION LAWRENCE, 1929–1967, Professor Emeritus of Art History
Ph.D.

PHOEBE MORRISON, 1952–1967, Professor Emeritus of Government
Ph.D.

HENRY S. SHARP, 1941–1967, Professor Emeritus of Geology
Ph.D.

OTHER OFFICERS OF INSTRUCTION

ERICA HENNEFELD ABEEL, 1965, Instructor in French
A.B., Sarah Lawrence; M.A., Columbia

JOHN C. ALEXANDER, 1967, Instructor (Part-time) in Modern Greek
A.B., Tufts; M.A., Columbia

INA B. ALTERMAN, 1966, Assistant in Geology and Geography
A.B., City University of New York

ALVIN L. ATKINS, 1966, Lecturer in Psychology
A.B., Yale; M.A., Ph.D., Columbia

VICTORIA BARR, 1967, Assistant in Art History
M.F.A., Yale

PETER D. BROWN, 1967, Instructor in German
A.B., M.A., Columbia

CORNELIA BRUNNER, 1966, Assistant in Psychology
A.B., Barnard

LAMBERTO ANTONIO CANO, 1966, Instructor in Spanish
B.B.A., Puerto Rico

PATRICIA CARPENTER, 1961, Instructor in Music
A.B., California

LUZ CASTANOS, 1967, Instructor in Spanish
A.B., M.A., Hunter

ELIZABETH LOUISE CAUGHRAN, 1956, Associate in English
A.B., Russell Sage; M.A., Columbia

KENNETH COOPER, 1965, Instructor in Music
A.B., M.A., Columbia

MARIE JOSEPHINE BRETTE CORNGOLD, 1966, Instructor in French
B.A., Leeds; M.A., Cornell

BARNARD COLLEGE

TATIANA M. COSMAN, 1962, Director of Language Laboratory
A.B., M.A., Middlebury; M.A., Columbia

MAXINE CUTLER, 1967, Instructor in French
A.B., Barnard; Ph.D., Columbia

ELIZABETH C. DALTON, 1965, Instructor in English
A.B., California; M.A., Ohio

GAY A. DELANGHE, 1966, Instructor in Physical Education
A.B., M.A., Michigan

MARJORIE HOUSEPIAN DOBKIN, 1957-59; 1960, Associate in English
A.B., Barnard

ZVI DORI, 1966, Assistant in Chemistry
B.S., Columbia

BRUCE FELD, 1968, Instructor in Government
B.B.A., Miami; M.A., Rutgers

LINDA R. FERBER, 1966, Assistant in Art History
A.B., Barnard

CAROL FLOMERFELT, 1966, Instructor (Part-time) in Physical Education
B.S., Douglass

NAOMI FONER, 1966, Assistant in Psychology
A.B., Barnard

ANNETTE B. FOX, 1966, Lecturer in Government
A.B., Ph.D., Chicago

DOUGLAS FREUNDLICH, 1967, Assistant in Psychology

NATALIE S. FRIEDMAN, 1965, Lecturer in Sociology
A.B., Barnard; M.A., Ph.D., Columbia

SANDRA GENTER, 1961, Associate in Physical Education
A.B., Wisconsin; M.A., Columbia

BARBARA GOODSTEIN, 1967, Assistant in Chemistry
A.B., Barnard

MARIANNA GREENE, 1967, Associate (Part-time) in Russian
Russian Gymnasium, Munich

LINDA B. GREENBERG, 1967, Assistant in Biology
A.B., City College of New York

CAROLA GREENGARD, 1968, Instructor in Greek and Latin
A.B., Swarthmore

DANIELLE HAASE-DUBOSC, 1962, Instructor in French
A.B., Barnard; M.A., Columbia

MARGARET HANCE, 1955, Assistant in English
A.B., Wittenberg

FREDERICK HARRIS, 1968, Instructor (Part-time) in French
A.B., Fordham; M.A., Columbia

JANE LOUISE KAHN, 1967, Assistant in English
A.B., Barnard

EDWARD KAPLAN, 1967, Instructor (Part-time) in French
A.B., Brown; M.A., Columbia

LYDIA W. KESICH, 1959-65; 1966, Instructor (Part-time) in Russian
A.B., Vassar; M.A., Ph.D., Columbia

GRACE W. KING, 1960, Lecturer in Chemistry
A.B., Maine; Ph.D., Yale

ERICA KIPP, 1965, Studio Assistant in Art History
A.B., Bennington

ROBERT KIRSCH, 1967, Assistant in Psychology

PATRICIA H. LABALME, 1961-64; 1965, Lecturer in History
A.B., Bryn Mawr; M.A., Ph.D., Radcliffe

ROBERT P. LEWIS, 1966, Instructor (Part-time) in Russian
A.B., Haverford; M.A., Columbia

PAUL T. MARAMALDI, 1968, Instructor in German
A.B., St. Peter's College; M.A., Johns Hopkins

EDITH G. MASON, 1956, Associate in Physical Education
B.S., Winthrop; M.S., Louisiana State

RUTH M. MATHEWSON, 1964, Instructor (Part-time) in English
A.B., Vassar

ROBERT EUGENE MCGINN, 1968, Instructor in Philosophy
B.S., Stevens Institute of Technology; M.S., Stanford

KATHLEEN MICKLOW, 1967, Instructor (Part-time) in French
A.B., Barnard; M.A., Columbia

BARBARA STOLER MILLER, 1968, Instructor in Oriental Studies
A.B., Barnard; M.A., Columbia; Ph.D., Pennsylvania

LIBBY MILLER, 1967, Assistant in Chemistry
A.B., Barnard

KATHERINE MURRAY MILLETT, 1964, Instructor (Part-time) in English
A.B., Minnesota; B.A., Oxford

GALE B. MURRAY, 1966, Assistant in Art History
A.B., Barnard

BARNARD COLLEGE

- NATHALIE S. NABOKOFF, 1961, Associate in Russian
- BARBARA ODABASHIAN, 1967, Assistant in English
A.B., Hunter; M.A., Columbia
- BRIAN S. OVERSBY, 1967, Assistant in Geology and Geography
B.S., Southampton; M.S., Columbia
- DONALD PACE, 1968, Assistant in English
A.B., Washington; M.A., Columbia
- DANIEL PAGET, 1967, Instructor in Music
A.B., M.A., Columbia
- SELMA DE LA QUÉRIÈRE, 1967, Instructor (Part-time) in French
A.B., Brooklyn; M.A., New York University
- JEANETTE SCHLOTTMANN ROOSEVELT, 1951-58; 1962, Associate in
Physical Education
B.S., M.A., Texas Woman's University
- MARCIA ROSSER, 1967, Assistant in Psychology
A.B., Barnard
- CHRISTINE ROYER, 1965, Instructor (Part-time) in English
A.B., Western Maryland; M.A., Pennsylvania
- IN-HO RYU, 1967, Instructor (Part-time) in History
A.B., Wellesley; M.A., Radcliffe; Ph.D., Harvard
- ANNA MARIA SACHKO, 1966, Assistant in Economics
A.B., Barnard
- ANATOL K. SAPRONOW, 1966, Associate in Russian
Russian Gymnasium, Belgrade
- STEPHEN WILLIAM SCHNEIDERMAN, 1966, Instructor in Greek and Latin
A.B., Princeton; M.A., Harvard
- HENRY B. SCHROEDER, 1966, Assistant in Anthropology
A.B., Pennsylvania State
- MARVIN SCHULMAN, 1968, Instructor in German
A.B., Coe College; M.A., Columbia
- MARJORIE SCHULTE, 1967, Assistant in Psychology
A.B., Barnard
- SUSAN SLOSBERG, 1967, Assistant in Chemistry
A.B., Barnard
- JANET SOARES, 1968, Assistant in English
B.S., Juilliard
- ESTHER F. SOLIN, 1966, Instructor in Physical Education
B.P.E., Alberta; M.A., California

OFFICERS OF ADMINISTRATION

P. NICO SOLINAS, 1967, Instructor in Italian

DOMNA CALLIMANOPULOS STANTON, 1962, Instructor in French
A.B., Wellesley; M.A., Columbia

SANDRA STINGLE, 1967, Assistant in Psychology
A.B., Barnard

PATRICIA TERRY, 1958, Lecturer in French
A.B., Wellesley; M.A., Ph.D., Columbia

JANICE FARRAR THADDEUS, 1956, Lecturer in English
A.B., Barnard; M.A., Ph.D., Columbia

ZOYA A. TRIFUNOVICH, 1959, Instructor in Russian
B.S., M.A., Columbia

THERESA L. WHITESIDE, 1966, Assistant in Biology
A.B., M.A., Columbia

E. BELVIN WILLIAMS, 1966, Lecturer in Psychology
A.B., Denver; M.A., Ph.D., Columbia

OFFICERS OF ADMINISTRATION

MARTHA PETERSON, Ph.D.
President of Barnard College and Dean in the University

HENRY A. BOORSE, Ph.D.
Dean of the Faculty and Professor of Physics

HELEN PHELPS BAILEY, Ph.D.
Dean of Studies and Professor of French

BARBARA S. SCHMITTER, M.A.
Associate Dean of Studies and Associate Professor of Psychology

JEAN T. PALMER, A.B.
General Secretary and Director of Development

FORREST L. ABBOTT, Ed.D.
Treasurer and Controller

OFFICE OF THE PRESIDENT

DOROTHY H. HEFFERLINE, M.A.
Administrative Assistant

OFFICE OF THE DEANS

CHRISTINE ROYER, M.A.
Adviser to the Class of 1970

LYDIA KESICH, Ph.D. }
LOUISE G. STABENAU, M.A. }
Advisers to the Class of 1971

MIRELLA DE SERVODIDIO, Ph.D. }
DOMNA STANTON, M.A. }
Advisers to the Class of 1972

BARNARD COLLEGE

LOUISE G. STABENAU, M.A.	Adviser to Foreign Students
MARGARET KNIFFIN, A.B.	Administrative Assistant

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MARGARET V. O'SHEA	Supervisor of Building Services

OFFICE OF THE BURSAR

FRANCES A. BARRY, M.S.	Bursar
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FINANCIAL AID

VIRGINIA SHAW, A.B.	Director
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ELEANOR R. SMITH, B.S.	Director
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MARJORY J. NELSON, M.D.	College Physician
ZIRA DE FRIES, M.D.	Consulting Psychiatrist
HELEN STEIN, M.D.	Consulting Psychiatrist
LILO R. GROTHE, M.S., Ph.D.	Psychiatric Counselor
.....	Psychiatric Counselor
LELA ANDERSON, R.N.	Nurse
BEATRICE G. TUCKER, R.N.	Nurse
CHARLES L. GILBERT, M.D.	University Medical Officer

OFFICERS OF ADMINISTRATION

LIBRARY

ROBERT B. PALMER, M.A., M.S.	Librarian
NATALIE SONEVYTSKY, M.S.	Reference Librarian
EDNA C. LAW, M.A., M.S.	Circulation Librarian
PATRICIA K. BALLOU, A.B., B.S.	Assistant Reference Librarian
MARY J. KELLY, M.S.	Order Librarian
MYROSLAVA T. ZNAYENKO, M.A., M.S.	Reserve Librarian
.....	Assistant Reference and Circulation Librarian

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.....	Administrative Assistant

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KAREN KUSHNER	Editorial Assistant

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DORIS CAMPBELL, A.B.	Assistant Registrar
LENA BATTISTA	Administrative Assistant

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RUTH CASTELLI, A.B.	Administrative Assistant for Residences
LOUISE M. BOZORTH, A.B.	Administrative Assistant for College Activities
MARY LOUISE MOROSOF, A.B., M.A.	Director, Brooks, Hewitt, Reid
BLANCHE E. LAWTON, A.B., M.A.	Director, 616
HARRIET BRADFORD, A.B.	Director, Plimpton Hall

OFFICE OF THE TREASURER AND CONTROLLER

HELEN VANIDES	Executive Assistant
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III. An Introduction to the College

BARNARD'S HISTORY

Barnard College was among the pioneers in the crusade, waged so ardently in the late nineteenth century, to make higher education available to young women. The history of its achievement is an integral part of the history of Columbia University.

The University had its origin in the royal charter granted by George II in 1754 to the Governors of the College of the Province of New York, creating them a Body Corporate to erect and maintain King's College "for the Instruction and Education of Youth in the Learned Languages and Liberal Arts and Sciences." The Revolutionary War interrupted its active work when its buildings were requisitioned by the Continental Armies, but in 1784 it was reopened as Columbia College. In 1896 it was designated a university, and in 1912 its title was legally changed to Columbia University in the City of New York.

Barnard College had its inception in an idea proposed in 1879 to the Trustees of Columbia by its tenth president, Frederick A. P. Barnard. It was his conviction that "in the interest of society the mental culture of women should be not inferior in character to that of men," and that young women should, therefore, be admitted to Columbia College. This thought which "failed to attract the serious attention of the Trustees," was, nevertheless, rigorously developed by President Barnard, and in 1883 a petition signed by over a thousand citizens of New York culminated in the inauguration of the "Collegiate Course for Women." Women who passed "a very strict entrance examination" were authorized to follow a prescribed course, but were left "entirely free as to where or how to carry on [their] studies, whether in some school, private or public, or at home, or under the auspices or direction of any association interested in [their] welfare and advancement. . . . Suitable academic honors and distinctions" were awarded to those who on examination were found to have pursued such courses with success. This system was destined to please no one, neither the young women whose search for instruction was made so difficult, nor Columbia College whose degree could thus be conferred on the strength of examinations only. Six years later when Certain Friends of the Higher Education of Women presented still another proposal to Columbia's Trustees, cooperation was obtained for the establishment of an affiliated college for women. A provisional charter was granted by the State of New York, promise of funds for the first four years was secured, and its name, in honor of its most prophetic and persistent advocate, was chosen.

In October, 1889, the first class of Barnard College met in a rented brownstone house at 343 Madison Avenue with fourteen students enrolled in the School of Arts and twenty-two students in science, who, lacking the entrance requirements in Greek, were known as "specials." Six members of Columbia's staff gave instruction in prescribed subjects: English, French or German,

AN INTRODUCTION TO THE COLLEGE

Greek, Latin, and mathematics. A fellow of the University of Pennsylvania, Dr. Emily Gregory, volunteered her services as botanist, and Columbia soon sanctioned this role by appointing her its first woman lecturer.

Nine years later Barnard moved to its present site on Morningside Heights, and in 1900 it was incorporated in the educational system of Columbia University with provisions which at that time were unique among women's colleges: it was to be governed by its own Trustees, Faculty, and Dean; it was responsible for its own endowment and plant; it shared the instruction, the library, and the degrees of a university.

BARNARD TODAY

Barnard today presents rewarding contrast to the pioneer days. The teaching staff of six has grown to almost 200 men and women, some of them members of the University Faculties and some coming to the classrooms from the world of literature, the theater, and the arts. From the original fourteen matriculated students, enrollment has increased to 1,892; since 1893 Columbia has awarded its degree to 14,509 Barnard students. Pledges to support the College for its first four years have expanded to current endowment funds of \$13,400,000.

THE CURRICULUM

Within the University Barnard's corporate identity is maintained as an independent college for women. The curriculum offers the undergraduate opportunity to cultivate the liberal arts and sciences, to explore her cultural heritage, to discover and develop her capacity for intellectual adventure, and to establish habits of thought whereby she may utilize her knowledge in all facets of her future life.

Specific requirements for the degree are designed to give some comprehension of the roots of our civilization and an awareness of the diverse areas of human thought and their interrelationship: courses in the humanities enlarge the student's contact with literature and such fields as art history, music, philosophy and religion; acquaintance with the ideas and methods of a laboratory science is considered essential for an informed person in the modern world; finally, competence is necessary in at least one foreign language, to serve as an instrument for understanding and evaluating the achievements of other nationalities and a basis for communication with peoples whose history and traditions may differ from our own. This composes the basic curriculum of each student. Assistance in planning her individual course of study is given by her class adviser, a member of the teaching staff who supervises the work of the freshman and sophomore years.

At the end of this period each student chooses her major field. During the junior and senior years her major adviser guides advanced study in the area of concentration and all other phases of the college work. A major is offered by every department; interdepartmental majors may be requested in inter-related fields.

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Classes vary in size. Language classes are small as are other courses in which student participation is important. All introductory courses and classes taught primarily by the lecture method are divided into small groups for conference and discussion. Laboratory work in the sciences is conducted with a wide variety of modern laboratory equipment. There are opportunities for independent work and students may also be invited to participate in the research projects of members of the Faculty. Some undergraduate courses are held with Columbia College, and the departments of Greek and Latin, Italian, Mathematics, Music, Physics, and Religion are conducted jointly with the University. Graduate courses in the University also are open to qualified upperclassmen under certain conditions.

THE CAMPUS

The campus now occupies four acres of land adjacent to Columbia, between 116th and 120th Streets, and additional dormitories are nearby. Three residence halls, Brooks and Hewitt, and Helen Reid Hall, face an open quadrangle. A College apartment building on 116th Street was remodeled in 1964 and converted into suites for upperclassmen, and the adjacent 620 West 116th Street is partially occupied by students. The new Plimpton Hall on the eastern border of Columbia University, scheduled for completion in 1968, will accommodate additional students. Milbank Hall at the northern end of the campus contains administrative offices and classrooms, the laboratories of the natural sciences, a greenhouse and an animal house for the use of students of biology, penthouse studios and practice rooms for music, and the Minor Latham Playhouse, where drama students and dramatics groups may use the equipment of a modern theater. The French, German, and Spanish Departments in Milbank Hall have social and reading rooms furnished by friends of the College with valuable paintings, music records, and books. In Barnard Hall are the gymnasium, the swimming pool and dance studios, English seminar rooms and classrooms, a spacious social center known as the James Room, and the Annex with a lounge and snack bar and quarters for student organizations.

Adele Lehman Hall, a five-story building containing the Wollman Library and classrooms, was opened in the autumn of 1959. The library was designed to provide for an expanding collection of both book materials and services, thus making available opportunities for independent work in advanced courses. It has a growing record collection with ample listening facilities, as well as an audio-visual studio and control room for the recording of tapes and for the use of other audio-visual equipment. The print room offers facilities for the study of photographs and art reproductions. Carrels are provided for individual study, a seminar room for class use of library materials, small rooms for typing, and studies for informal student discussion. The open-shelf arrangement, occupying three and one-half floors, has a capacity of 150,000 volumes, and Barnard students have access also to the over 3,000,000 volumes in the University libraries. Offices and seminars of the social science departments and classrooms occupy the top floor. A thirty-booth language laboratory on the ground floor is utilized by all language departments and by students of English speech.

The Millicent Carey McIntosh Student Center and a large building, the twelve-story Helen Goodhart Altschul Hall, which will be devoted primarily to the sciences, will be completed in 1968.

STUDENT LIFE

Barnard's student population is cosmopolitan in nature. One third of the students have families within commuting distance; the others come from nearly every state in the Union and some twenty-five foreign countries. All represent diversity in background and training; and mingling of economic, regional, and cultural strains finds expression in the life of the campus.

The Undergraduate Association, of which all students are members, sponsors extracurricular activities reflecting current interests: the college newspaper, the literary magazine, drama clubs, political and religious clubs, the pre-medical club, and clubs representing many departmental fields. Students from Barnard and Columbia plan together for the social program of the two colleges. Many activities, such as the University's Chorus and Orchestra and its radio station, invite membership from all undergraduates in the University, and a Citizenship Program enlists volunteers from both colleges for community service.

The freshman and sophomore festival, Greek Games, is presented in the spring. Themes from classical mythology are portrayed in original dance, music, and verse, and an athletic contest is climaxed by a chariot race in which class teams of four "horses" compete in exciting style.

In the College community the Undergraduate Association takes wide responsibility, and its members serve on important Faculty-student committees. All students are automatically under the jurisdiction of the Honor Code, administered by the Honor Board of the Association, whereby a high standard of honor in examinations and all other phases of college life is maintained. A Judicial Council comprising undergraduates and Faculty members recommends disciplinary measures for nonacademic offenses. Students are expected to behave at all times in a manner which will reflect favorably upon themselves and the College.

Religious organizations and activities, with headquarters on the Columbia campus in Earl Hall, are open to all students. The Thursday Noon Meeting at Barnard provides a weekly forum for discussion of contemporary religious and philosophical thought by Faculty and guest speakers and students. The devotional life of the College and University is centered in St. Paul's Chapel, where weekday and Sunday services are held. Attendance is voluntary. Through the cooperation of the Chaplain and counselors of various faiths a unity of religious life is secured within the University, while within each faith individual traditions are maintained.

The Athletic Association sponsors many campus activities, such as tennis, basketball, water ballet, fencing, and modern dance. Intercollegiate Sports Days held throughout the year enable students to participate in athletic events with other colleges. In 1933 the Barnard Camp, twenty acres of

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wooded land in Westchester County, was purchased by the alumnae, providing an accessible site for recreation during country weekends.

NEW YORK IS BARNARD'S LABORATORY

Fifty years ago, Nicholas Murray Butler, one of Columbia's great presidents, observed, "New York is intensely cosmopolitan and contact with its life for a short time during the impressionableness of youth is in itself a liberal education." The city is an extension of the campus, utilized by every department to narrow the gap between learning and living. Barnard is a university college in an international city, and today the curriculum affirms and encourages precise and graphic use of its vast metropolitan laboratory.



IV. Admission

Since entering classes are limited in size, admission to Barnard College is on a selective basis. The Committee on Admissions endeavors to choose candidates who seem most receptive to the discipline and challenge of a liberal arts education. Each applicant is considered in the light of her past performance, the qualities of mind and spirit which insure her growth as an individual, and her ability to contribute to the growth of those with whom she will associate in college and throughout her adult life.

The College believes it is also desirable for the student body to represent a stimulating variety of schools, both public and independent, from all parts of the United States and from abroad.

Although an interview is not required, students who wish to meet with a member of the Admissions staff may request an interview at the College in the fall of their senior year, or in their junior year except during the period between March 1 and May 1. Whenever it is possible the College will arrange interviews with alumnae for those students who are unable to visit the campus.

ADMISSION TO THE FRESHMAN CLASS

Application for admission to the freshman class should be made before January 1 of the year of entrance. It is advisable, however, to apply by the end of the junior year or the fall of the senior year. Application forms may be obtained by writing to the Director of Admissions.

A nonrefundable fee of \$15 must accompany each application. Checks or money orders must be in U.S. funds drawn on a U.S. bank, and made payable to Barnard College.

Students are admitted to the freshman class in September. They must be at least fifteen years of age, and should present the following credentials:

- 1) Evidence of good character, which is obtained from confidential reports from the applicant's secondary school principal and teachers and, if possible, through a personal interview at the College.
- 2) Evidence of sound health, to be submitted as soon as the applicant has been accepted, on forms provided by the Office of Admissions.
- 3) Evidence of intellectual ability and achievement, which is reported by the secondary school to the College, and is also demonstrated by the required College Entrance Examination Board tests.

Candidates for admission must offer a college preparatory program from an approved secondary school or should have equivalent education representing a four-year course of study. Academic preparation for admission should be based on the requirements for the A.B., or liberal arts, degree. A recommended program would comprise four years of work in English; three

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years in mathematics; four years in a foreign language (ancient or modern); one year in a science with laboratory; and one year in history. An introduction to a second foreign language is generally useful. The remainder of the program would include additional work in the aforementioned subjects with the possible addition of music and art.

The Committee on Admissions is willing to consider the applications of students whose preparation may vary from the usual pattern but whose records give evidence of genuine intellectual ability and interest.

Every candidate for admission to the freshman class is required to take the College Entrance Examination Board Scholastic Aptitude Test and three Scholastic Achievement Tests. The latter must be taken in (1) English composition, (2) a foreign language, and (3) history, science, or mathematics. The Scholastic Aptitude Test should be taken in December or January of the senior year in high school. Achievement Tests in continuing subjects (English, foreign languages, mathematics, etc.) should be taken in December or January of the senior year. Students are also urged to take the Language Listening Comprehension Examination. Achievement Tests in one-year subjects or those completed in the junior year may be taken in May of the junior year. If the Scholastic Aptitude Test is taken for guidance purposes in the junior year, the scores should be reported to the College.

EARLY DECISION PLAN

In order to alleviate some of the problems arising from multiple applications, Barnard, with the other members of the Seven College Conference, has agreed to take action in the fall of the senior year on the applications of well-qualified students who have made their choice of a college by that time. Students wishing to apply under this plan should signify their intention when they request application papers. They must be certified by their school as having filed only one application.

Single-choice candidates for Barnard admission should send their application to the Office of Admissions, Barnard College, New York, N.Y. 10027, before October 15 of the senior year. Applications must be accompanied by the \$15 application fee.

Late in November Barnard will send to single-choice applicants letters of admission or rejection, or, in doubtful cases, postponement of decision until the customary date in the spring. Each applicant will be considered on the basis of (1) the recommendation of her school principal or counselor, (2) her three-year record at school, and (3) the results of the required College Board Scholastic Aptitude Test and the three Scholastic Achievement Tests taken in her junior year in English composition, a foreign language, and history, science, or mathematics.

The successful candidate will be expected to complete her senior year satisfactorily and to submit a record of that year's work. She will not be asked to repeat any College Board examinations. She must agree to pay to Barnard in January a deposit of \$100, if she is to be a commuting student, and \$150 if she is to be a resident student, to hold her place in the freshman class.

The candidate on whose application decision has been postponed will be given full and careful consideration in the spring. She will be asked to submit a record of her school work for the first half of her senior year, with the results of senior College Board Scholastic Aptitude and Achievement Tests as additional evidence.

Candidates on whose credentials favorable action is not taken may file applications at other colleges after receiving their notification from Barnard.

THE COLLEGE ENTRANCE EXAMINATION BOARD TESTS

The College Entrance Examination Board will administer the following series of tests in 1968-69:

Saturday, December 7, 1968
 Saturday, January 11, 1969
 Saturday, March 1, 1969

Saturday, May 3, 1969
 Saturday, July 12, 1969

Candidates should write directly to the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540, for the Bulletin of Information containing descriptions of the Scholastic Aptitude and Achievement Tests, directions for filing applications, and lists of examination centers. When requesting the application forms, candidates should state the month in which they wish to take the tests.

Residents of California, Oregon, Washington, Idaho, Montana, Wyoming, Utah, Colorado, Nevada, Arizona, New Mexico, Alaska, Hawaii, Australia, Mexico, and the Pacific Islands should write to the Pacific Coast Office of the Board, Box 1025, Berkeley, California 94701.

To facilitate the arrangements for the conduct of the tests, all applications should be filed as early as possible. The normal closing date for the receipt of applications in Princeton, New Jersey, or Berkeley, California, for candidates outside the United States, the Canal Zone, Canada, Mexico, and the West Indies is two months before the date of the examination; for all other candidates the closing date is four weeks before the date of the examination. A penalty fee of \$2.50 to accompany the application will be charged for applications received later than the normal closing date.

No applications received in Princeton or Berkeley later than two weeks before the examination date will be considered. Candidates may not register for the tests at the examination centers. Each application should be accompanied by the appropriate examination fee:

Scholastic Aptitude Test alone.....	\$5.00
One, two, or three Achievement Tests.....	7.50

The Board will report the results of the tests to the institutions indicated on the candidates' applications. The colleges, in turn, will notify the candidates of the action taken on their applications for admission. Candidates will not receive reports of their tests from the Board.

BARNARD COLLEGE

ADMISSION WITH ADVANCED PLACEMENT

Students who have completed advanced work in secondary school and who present satisfactory scores on the Advanced Placement Tests of the College Entrance Examination Board may be placed in courses above the level of the freshman year, at the discretion of the departments concerned.

On recommendation of the Barnard departments concerned, students with scores of 4 or better on the College Entrance Examination Board Advanced Placement Tests may be given up to four semester courses of credit.

ADMISSION TO ADVANCED STANDING

Transfer students are admitted in September and in February. Candidates should present a strong record of not less than one year's work at an accredited college, or foreign university, or institution of equivalent grade. In general, credit is given for courses taken at another college which are similar in content to those offered at Barnard. (See also page 34.)

The student should submit her formal application and the following credentials: her secondary school record, a recommendation from her principal and her college dean or class adviser, a complete and official transcript of her college work and a copy of the college catalogue in which the courses she has taken are clearly marked, and the results of the College Entrance Examination Board tests. A candidate will be asked to take the College Entrance Examination Board Scholastic Aptitude Test if she has not already done so. No definite credit for junior college work can be assigned until the student has had an opportunity to establish a satisfactory record at Barnard.

In all cases, final action on admission of a transfer student depends upon the receipt of a statement of honorable dismissal, which is a certificate of good character from an authorized representative of her college, and the required health reports.

Application for admission to advanced standing should be submitted before May 15 for admission in September and before December 1 for admission in February. All credentials should be in the hands of the Committee on Admissions by September 15; otherwise, the student may be asked to postpone registration until after classes begin, thereby incurring an additional fee of \$15 for lateness.

Seniors who are degree candidates at other colleges may apply for permission to complete their requirements at Barnard. Each applicant must present satisfactory college records and letters of approval from her Dean and her major adviser, and agree to comply with all Barnard regulations concerning attendance and course examinations.

ADMISSION OF FOREIGN STUDENTS

The College is interested in the applications of qualified foreign students. Candidates are expected to take the Scholastic Aptitude Test given by the College Entrance Examination Board, if they can arrange to do so. (This test

examines the student's ability to understand word relationships and to comprehend what is read, and the ability to understand and solve mathematical problems.) Freshman candidates should also present the Achievement examination results. Requests for an examination center overseas should reach the Board, Box 592, Princeton, New Jersey 08540, two months prior to the dates listed on the previous pages.

Knowledge of the English language is essential for admission. It is recommended that applicants take the TOEFL, Test of English as a Foreign Language. Information about registration should be obtained by writing to the TOEFL Program, Educational Testing Service, Princeton, New Jersey 08540. If the results of this examination cannot be presented, students whose native language is not English are required to take the American University Language Center Test. Arrangements for it should be made through the United States Consulate.

During the week of registration (September or February) all foreign students must take English placement tests in writing, aural comprehension, and speech. Failure to pass these tests will necessitate remedial courses in English at Columbia University, either without academic credit or with limited credit, depending on the level of the course and the grade obtained. No credit is assigned for other academic courses until the remedial work is successfully completed.

Limited financial aid is granted to qualified applicants. Admitted students should direct an inquiry to the nearest American Embassy concerning the possibility of securing a Fulbright travel grant. Employment during the first year here is not permitted. Official approval must be obtained from the Immigration and Naturalization Service for paid work after the first year.

Definite credit for study at foreign institutions is not assigned until a full year of satisfactory work has been completed at Barnard. It is hoped that the foreign student will return to her home country and utilize her education after completion of studies in the United States.

For information concerning the Medical Expense Policy which is obligatory for foreign students whose homes are outside the United States, please see page 160.

Candidates are urged to communicate with the Director of Admissions well in advance of the date they wish to enter, so that the College may be of assistance to them in making their plans.

READMISSION

A student who has withdrawn from the College, or who has been on leave of absence, is not automatically readmitted. She should make application for readmission to the Director of Admissions. A nonrefundable fee of \$15 must accompany the application of any student who has not been granted a leave of absence by the Dean of Studies. Completed applications are due by December 1 for the Spring Term, and by March 15 for the Autumn Term. All required credentials (e.g., medical reports, transcripts, recommendations) as well as the application must be submitted by these dates.

V. Degree Requirements

ACADEMIC REQUIREMENTS FOR THE A.B. DEGREE

Requirements for the Bachelor of Arts degree serve as a framework for the acquisition of knowledge of the various fields of human thought. They have been planned to secure for the student a sound foundation in the liberal arts and sciences on which to base intensive work in the sphere of her special interest. These requirements call for the completion of 32 courses and include the following:

I. BASIC.

- 1) English A1. (Foreign students please refer to page 30.)
- 2) One science (two semesters), with laboratory.
- 3) Foreign language. Competence in a modern foreign language, or in Greek or Latin. This requirement may be fulfilled either by passing an examination with a sufficiently high score, or by satisfactory completion of a designated course. (See the statement under the appropriate language department for further details.)

II. GENERAL.

Completion of six semester courses outside the major department, selected from the following six categories (no more than two courses in any single category may satisfy the requirement):

- 1) Art history; music
- 2) Literature in the language in which it was originally written
- 3) Philosophy; religion
- 4) History
- 5) Anthropology; economics; geography; government; sociology
- 6) Mathematics

III. MAJOR.

A major field is to be selected before the end of the sophomore year, consisting of not less than 8 courses of prescribed work. Each department requires, as specified, either a senior thesis or a major examination or an equivalent demonstration of achievement in the discipline. A major may be chosen in any one field, or in such combinations as are approved by the Committee on Programs and Academic Standing.

IV. PHYSICAL EDUCATION.

Completion of six semesters required for students admitted as freshmen; four semesters for students admitted as sophomores; two semesters for students admitted as juniors.

All requirements must be completed within six years of the student's matriculation as a freshman at Barnard or elsewhere.

SATISFACTION OF REQUIREMENTS BY EXAMINATION

At the discretion of the department involved, a student may take special examinations which, if successfully passed, offer exemption from basic, general, and major requirements. Special examinations may also be taken to demonstrate preparation for admission to advanced courses. Further details concerning such examinations are available in the Office of the Registrar and the departmental offices. The purpose of these examinations is to allow the student a wider intellectual experience than would otherwise be possible during the four-year College course.

SENIOR SCHOLAR PROGRAM

The Senior Scholar Program allows especially qualified students to undertake a single project, with exemptions from all course and major requirements, in their senior year. The program is intended to meet the needs of those few students who come to the senior year with a record of unusual accomplishment in a specific area of scholarship, or in the practicing arts. A student with such qualifications, who has a clear and well-organized proposal and has found a faculty adviser to direct her work, should apply to the department concerned by midsemester of the second term of the junior year. At the conclusion of the junior year, the student should have completed all basic and general requirements for the degree. The Senior Scholar Program is not primarily for the student who intends to become a candidate for an advanced degree because the year of independent work may pre-empt regular academic preparation for such a degree.

RESIDENCE

Students are expected to remain in residence for four years. Requests for acceleration will be granted sparingly and only for reasons of importance. Such requests must be submitted no later than October 1 of the junior year. Normally, only 8 courses per year will count for credit, but students may elect to take 5 courses in any term. All count equally in determining average. Permission to complete the work for the degree while registering *in absentia* may be granted under certain conditions on application to the Committee on Programs and Academic Standing.

GRADING SYSTEM

Academic standing and eligibility for graduation are determined by the quantity and quality of the student's work. Quantity is estimated by the number of courses completed. Quality of work is indicated by the following grades: A or A-, excellent; B+, B, B-, good; C+, C, C-, fair; D, poor; F, failure, and P, passed without a specific grade. Work of unusual merit in the major field is awarded the grade Passed with Distinction.

A course is marked Incomplete (Inc.) if the student has filed the instructor's written permission for the postponement of required work with the Registrar; Absent (Abs.) means absent from the final examination; Deferred (Def.) means the grade has been deferred because of illness during the

examination; the entry Y-C signifies that the grade on completion of the second term will apply to the first term as well; WD/F signifies withdrawal from a course without formal notification.

In computing averages, each course with a mark of $A = 4$; $B = 3$; $C = 2$; $D = 1$; $F = 0$. For every plus or minus unit an adjustment of $+0.3$ or -0.3 is made. In order to be recommended for the degree a student must maintain a cumulative average of 2.00 (C) for her entire course and for her senior year specifically. At the end of each term all records are examined. Normally only those students whose cumulative average is 2.00 or above are permitted to remain in college. The continuance in college of students whose work falls below this average depends upon promise of future development and is determined by the Committee on Programs and Academic Standing.

Work of D grade is not counted in the major field, although it is included in the average for the major.

REQUIREMENTS FOR TRANSFER STUDENTS

Before registration the transfer student receives an estimate of the credit she may expect for work she has done at her previous college. She plans her program with her adviser using the estimate as a guide to the required work to be completed.

All transfer students (except foreign students) are considered to have satisfied the requirement of English A1. Those who subsequently appear to have deficiencies in English will be advised to take further work.

Transfer students are required to take a language placement test before registration and are assigned to the course which the results of the test indicate they are prepared to take. A high score on the test will give exemption from the language requirement. Should the student be placed in a language course lower than one already passed at her former college she will lose credit for any work that must be repeated. Courses in literature may be counted as elective credit and may be used to satisfy the general requirement under certain conditions, even though the student may be required to take additional work in language to complete the language requirement.

A maximum of 8 courses towards the Barnard degree is allowed for one year's work elsewhere. Sixteen of the courses to be counted toward the degree must be taken at Barnard, including a minimum of 6 courses in the major field.

VI. General Information

REGISTRATION

Class advisers for the freshman and sophomore years and major advisers for upperclassmen are appointed from the teaching staff and are prepared to give information and advice. For the year 1968-69 the class advisers are:

Advisers to the Class of 1971	Mrs. LYDIA KESICH Mrs. LOUISE G. STABENAU
Advisers to the Class of 1972	Mrs. MIRELLA DE SERVODIDIO Mrs. DOMNA STANTON

Registration for all students takes place in 306 Barnard Hall, as follows:

Autumn Term

Monday, September 23	All returning students whose permanent home address is within a fifty-mile radius of New York City.
Tuesday, September 24	All returning students whose permanent home address is outside a fifty-mile radius of New York City.
Wednesday, September 25	a.m. Freshmen p.m. Transfers and readmitted students.

Spring Term

Monday, February 3	a.m. Freshmen p.m. Sophomores
Tuesday, February 4	a.m. Juniors p.m. Seniors, February transfer and re-admitted students.

Registration is not complete and classes cannot be attended until all fees, including those for residence, are paid. A fee of \$15 is charged for failure to register at the scheduled time. (See also Payment of Fees, page 157.)

No student will be permitted to register after Friday, October 4, in the Autumn Term and Friday, February 14, in the Spring Term.

No student may be registered simultaneously in any other school or college without the consent of the President of the College.

ACADEMIC DISCIPLINE

The continuance of a student upon the rolls of the College, the receipt of academic credit, graduation, and the conferring of a degree or certificate are subject to the disciplinary powers of the College. Any registration may be cancelled at such time and upon such grounds as the College shall in its sole discretion determine.

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ATTENDANCE

All students are expected to attend classes regularly. Students who absent themselves from classes must expect the quality of their work to be affected, with consequent detriment to their academic standing. Frequent or prolonged absences from the College without a compelling reason such as illness will cause a student to forfeit the right to make up work or take final examinations.

All absences due to illness must be reported on forms available in the Office of the College Physician. Illness is considered an excuse for absence only if the student's statement is filed immediately upon her return to college.

Barnard is a nondenominational college. Students who are prevented by conscientious scruples from complying with academic requirements on days set apart for religious observance should discuss this problem with their religious counselor.

WITHDRAWAL

A student not subject to discipline for infraction of College rules may withdraw from the College with an honorable discharge. Notice of intention to withdraw must be given in writing on forms obtained from the Office of the Dean of Studies. A student under twenty-one must furnish written assent of a parent or guardian. Failure to submit the proper notification on the part of a student who withdraws while College is in session may result in a report of WD/F for the term's work.

LEAVES OF ABSENCE

Requests for leaves of absence should be addressed to the Dean of Studies on forms to be obtained from her office. A student in good standing may be granted a leave of absence for one term or two consecutive terms only, for personal reasons, e.g., health, marriage, financial necessity, or for study abroad. Completed application for leave of absence must be received prior to the term(s) to which it applies: by July 1 for the Autumn Term; by December 1 for the Spring Term.

CLASSIFICATION OF STUDENTS

Students are classified as follows:

Freshmen:	those who have completed fewer than 6 courses
Sophomores:	those who have completed 6 courses
Juniors:	those who have completed 14 courses
Seniors:	those who have completed 24 courses
Unclassified:	those who have not yet been assigned definite credit on transfer
Nonmatriculated:	those who are not candidates for the degree

No matriculated student may change her status to that of nonmatriculated student.

CHANGE OF PROGRAM

Students may change the programs for which they have registered through Friday, October 4, Autumn Term, and Friday, February 14, Spring Term. After that date, changes of program are subject to the following regulations:

Section Changes. Sections may not be changed except at the written request of the instructor.

Adding Courses. No course may be added for any reason.

Dropping Courses. A course may be dropped with the written approval of the class adviser (for freshmen and sophomores), the major adviser (for juniors and seniors), or the College Physician. After a fixed date (Friday, December 13, Autumn Term; Friday, April 11, Spring Term), no course may be dropped except with the approval of the Dean of Studies, and then only for reasons of serious personal emergency.

Audited Courses. No change from a noncredit to a credit basis may be made under any circumstances after the final date for adding a course. Permission of the instructor is required to audit a Barnard course. For Columbia courses, forms must be obtained from the Registrar.

COLUMBIA UNIVERSITY COURSES

Under certain conditions courses in other divisions of the University may be elected when an equivalent course is not offered at Barnard.

Graduate Faculties: Courses in the Faculties of Political Science, Philosophy, and Pure Science are open to qualified upperclassmen who need this work to achieve their specific objective in the major field. Such students must obtain the approval of the major adviser and the chairman of the Barnard department concerned. This privilege is intended primarily for members of the senior class.

Seniors with high academic standing may apply for permission to count up to 4 courses of graduate work in the major field towards the graduate degree.¹

Those who wish to register for graduate courses to count towards a higher degree must comply with the following conditions:

1. The approval of the chairmen of the Barnard and Columbia departments, the Graduate Admissions Office, and the Committee on Programs and Academic Standing must be obtained in advance and filed in the Registrar's Office.
2. The student must be in her senior year.
3. The program for the term must not be in excess of 5 courses.
4. The courses for graduate credit must be over and above the 32 courses required for the A.B. degree.

¹ Financial aid is not applicable to fees for such work.

BARNARD COLLEGE

Columbia College: Certain courses at Columbia College may be elected, in addition to those in this announcement. Those who wish to register for them must obtain written approvals on forms to be obtained in the Registrar's Office.

School of General Studies: Courses in the School of General Studies which are not listed in this announcement may be elected with the approval of the class or major adviser and the Committee on Programs and Academic Standing upon application to the Registrar's Office. They will be credited towards the degree if passed with a grade not lower than C. Fees for General Studies courses not listed in the Barnard announcement are paid for by the student herself over and above the Barnard tuition, with the following exceptions:

1. Courses which are essential to the major for which the approval of the major adviser and the Committee on Programs and Academic Standing is obtained.
2. Language courses not offered at Barnard, under special conditions to be reviewed by the Committee on Programs and Academic Standing.
3. Courses certified by the chairman of a department as essential to a program of work to be taken at Barnard in a particular field under the direction of the department.

Teachers College: Certain courses may be taken for credit by qualified seniors with the consent of the Dean of Studies and the Registrar of Teachers College. Fees for these courses are not included in the regular tuition, but are added to the Barnard bill.

SUMMER STUDY

A student will normally be expected to spend four years completing the work for the degree; however, with prior approval of acceleration by the Committee on Programs and Academic Standing or permission to make up a course dropped or failed during the term, up to 4 courses may be taken for credit in summer session. Summer study may also be used for the satisfaction of prerequisites or for the fulfillment of requirements.

The entire summer program must be approved in advance in writing, first by the class or the major adviser, and secondly by the chairman of the appropriate Barnard department. Programs must be approved and submitted to the Registrar before the last day of the Spring Term. Official reports of grades must be filed with the Registrar not later than October 15. Grades of Absent or Incomplete will not be honored after that date.

Not more than two one-semester courses may be elected in any one summer session.

Courses of less than six weeks' duration are credited only in exceptional cases.

No course with a grade lower than B— will be credited toward the degree.

Grades will not be included in the Barnard average.

EXAMINATIONS

Examinations are scheduled at the end of each term. For the academic year 1968-69 they will be held January 20-30, inclusive, and May 19-29, inclusive.

Deferred examinations, given in September and March, are open only to those students whose work is satisfactory and who were absent from the regular examinations for reasons of illness or extreme family emergency. Exceptions to these conditions can be made only by ruling of the Committee on Programs and Academic Standing in individual cases.

Absence for reasons of health on the day of an examination should be reported to the Office of the College Physician.

Examinations missed in January are to be taken the following March or, in cases of prolonged illness, in September of the same year. Those missed in May are to be taken in September of the same year. If a student absents herself without a valid excuse from a final or deferred examination, she will receive a grade of zero for that examination. A fee of \$5, payable in advance, is charged for each deferred examination. A senior who has missed an examination at the end of her last term may apply for a special examination for which the fee is \$10, payable in advance.

Tentative examination plan

The following plan shows the pattern normally used in making up the examination schedule; it is necessarily subject to change. In the periods left open, groups 10 through 17 are arranged so as to avoid conflicts for Barnard students taking Columbia examinations scheduled at these time.

FIRST WEEK

A.M.	MON.	TUES.	WED.	THURS.	FRI.
Group		8	1	6	3
Class Hour		TuTh 11	MWF 9	TuTh 9	MWF 11
P.M.	MON.	TUES.	WED.	THURS.	FRI.
Group	5				
Class Hour	MWF 2				

SECOND WEEK

A.M.	MON.	TUES.	WED.	THURS.
Group	2	7		
Class Hour	MWF 10	TuTh 10		
P.M.	MON.	TUES.	WED.	THURS.
Group	4	9		
Class Hour	MWF 1	TuTh 2		

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QUIZZES

Instructors are not required to give make-ups to those absent from previously announced quizzes. In case an instructor is willing to give a make-up quiz, he is authorized to do so only if the student has submitted a medical certificate of illness approved by the College Physician, or evidence of other extenuating circumstances acceptable to the instructor.

DEGREES

Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts. Degrees are granted in June, October, and February. A statement of intention to complete the work for the degree on any one of these dates must be filed with the Registrar at the announced time. (See College Calendar pages 5 and 6.)

HONORS

The Faculty confers honors upon students who complete work for the degree with distinction (*cum laude*, 3.25), with high distinction (*magna cum laude*, 3.50), and with highest distinction (*summa cum laude*, 3.75). Honors for students whose records include work done at other colleges require a slightly higher average. Departmental honors are awarded to graduates who have done distinguished work in their major fields.

DEAN'S LIST

A Dean's List, which contains the names of students who deserve special mention for superior scholarship, is compiled at the end of each academic year. A program of not less than 3 courses each term and an average of 3.40 for the year are required. Announcement of the list is made the following October.

PHI BETA KAPPA

The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship, and Barnard students of exceptionally high standing are eligible. Questions concerning Phi Beta Kappa should be referred to the Office of the Dean of Faculty.

HEALTH

The College Physician is responsible for the health of the college community. She is assisted by two consulting psychiatrists, two psychiatric counselors, and two nurses. Medical examinations at regular intervals are obligatory: December 15 is the final date for seniors for the completion of their examination; May 15 for freshmen. Students will not be permitted to register for the succeeding term until they have had this examination.

All students, residents, nonresidents, and commuters, must immediately report any illness, however minor, to the Medical Office. If resident students

wish to have someone other than the College Physician care for them, their parents must address a request to the College Physician and send her the name and address of the doctor before registration.

HOUSING

Traditionally, Barnard has attracted students from all over the world as well as from its own community, New York City, and its suburbs. At present the College has academic facilities for 1,880 students, of whom 1,200 can be housed in the campus residence halls and the cooperative apartment buildings adjacent to the campus. Additional rooms are assigned by the College in two Columbia University residences, and further College-owned and -operated facilities are planned for the near future.

To keep Barnard a national college, resident spaces are assigned by the Director of Residence according to the following priority: incoming resident freshmen and resident upperclassmen; resident students returning from leaves of absence; nonresidents who have permission to change their status to residents; and commuters, who by special permission may live on a temporary, semester basis in the dormitories without a change of housing status. If no vacancies remain in rooms assigned by the College, upperclassmen accepted as nonresident transfers are eligible for housing elsewhere, according to their housing classifications.

Applicants for admission are expected to be familiar with Barnard's housing rules and are required to abide by them when enrolled at the College. No student may register for classes until her housing arrangements have been completed in accordance with the housing regulations. The Director of Residence must know before academic registration each term where every student is living and must have any permission forms required of the student complete and on file. For resident students, for commuters living with their parents or legal guardians, and for married students living at the address to which their College bills are sent, this is accomplished automatically by correct recording of their addresses at the time of academic registration. Any student who wishes to change her address at any time after her first registration for a given academic term (even when returning to her legal home¹) must, before moving, file with the Director of Residence her new address and necessary permissions.

GENERAL REGULATIONS

Freshmen under 21 must live at home, with a close relative (parent, husband, grandparent, aunt or uncle, or brother or sister who is married or over 21), or in supervised College-assigned housing.

Any student over 21 may live in housing not owned or assigned by the College if she wishes. The off-campus address must be entered on the permission form which is registered with the Director of Residence, but parental signature is not necessary.

¹ A "legal home" for a student under 21 is the residence of her parents or her legal guardian.

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A married student is exempt from the regulations governing her housing classification but should complete a married student's form in the College Activities Office.

A senior, regardless of age or housing classification, who prefers to make independent, off-campus living arrangements may do so. Parental approval is necessary if the student is under 21. The College urges that parents personally inspect the proposed residence before indicating that they will assume full responsibility for the student's health, safety, and finances. The College, however, will forward the permission form upon receipt of a letter explaining the parents' inability to visit the proposed residence.

No exceptions to the foregoing off-campus housing regulations will be granted unless the Housing Committee considers the circumstances so unusual that they are not applicable to other students. Requests for exceptions must be sent in writing by a parent or legal guardian to the Director of Residence.

A student who violates the housing regulations may be subject to suspension for a term or expulsion from the College.

HOUSING FACILITIES

College-Owned and -Operated Residences

Brooks, Hewitt, and Reid Halls, supervised dormitories at 3001 Broadway, are operated as one complex with space for 523 students from all classes. Rooms are singles, doubles, and triples. Freshmen are usually assigned to double rooms. All students living in these halls are required to take meals in the Hewitt dining room. Rooms are \$600 a year, board \$550 a year.

616 West 116th Street, and Plimpton Hall at 120th Street and Amsterdam Avenue, apartment-style supervised residences, provide housing for 467 upperclassmen in suites of single and double rooms accommodating five to six girls. Each suite has a kitchen in which students may prepare their own meals. If they wish, they may subscribe at \$550 a year to the College food plan and take meals in the Hewitt dining room by making arrangements with the Director of Food Services. Rooms are \$600 a year.

University Space Assigned by the College

The Fairholm, 503 West 121st Street, is a women's hostel owned and operated by Teachers College of Columbia University. Students have their own keys and are not subject to supervision. Assignments are made to commuters and nonresidents who have parental permission. Barnard rents 85 single rooms in housekeeping suites with prices ranging from \$440 to \$572 per year.

Johnson Hall, 411 West 116th Street, is a women's residence owned and operated by Columbia University in which Barnard reserves a few spaces. Barnard students assigned here must abide by the regulations governing all residents in the hall, which include a sign-out and curfew system. Singles and doubles range from \$400 to \$600 per year. The required Johnson Hall food plan, which consists of breakfast and dinner, is \$425 a year.

CLASSIFICATIONS FOR HOUSING

Students are classified as *residents*, *nonresidents*, or *commuters* when they enter Barnard. Their status may change (1) if the legal residence changes; (2) when they reach 21; (3) when they become seniors; or, (4) in the case of nonresidents, if they are assigned a room in one of the residences owned and operated by the College.

Resident

A resident is a full-time student whose legal home is outside the commuting area (one and one-half hours from the College each way) and who is assigned a room by the Director of Residence in one of the residences owned and operated by the College.

Nonresident

A nonresident is a student whose legal home is outside the commuting area (one and one-half hours from the College each way) who is not assigned space in one of the four residences owned and operated by the College. She must secure permission from the Director of Residence to live elsewhere than in College-administered housing. Students under 21 who are assigned this status when they enter Barnard are required to live in (1) The Fairholm; (2) Johnson Hall; (3) off-campus housing obtained through the Office of Director of Residence, or in a women's residence; (4) with a close relative; or (5) have a live-in job secured through the Barnard College Placement Office. The parent or legal guardian must submit a written request for one of the five types of off-campus housing listed above to the Director of Residence by September 1 for the Autumn Term and by January 15 for the Spring Term. A Nonresident Housing Permission Card is then forwarded to the parent or guardian to be filled out, signed, and returned. Permission is official when the card is on file at the College. When space becomes available in one of the four residences owned and operated by the College, the student is offered College housing and, if she accepts, her housing classification changes to that of resident.

Resident seniors and resident students over 21 may become nonresidents under conditions described above. Sophomore and junior residents under 21 may, with parental approval, change to nonresident status by securing from the College an assignment in The Fairholm or Johnson Hall. They may also live in off-campus housing arranged by the College or a women's residence, or with a close relative, or they may obtain a live-in job through the Barnard College Placement Office.

Commuter

A commuter is a student whose legal residence is within one and one-half hours' distance from the College each way. The College will be the sole judge of what constitutes a commuting area.

Under certain conditions the College will accept living arrangements made by a sophomore, junior, or senior commuter away from her legal residence in view of the fact that her parents can readily inspect, approve, and take full responsibility for off-campus accommodations. To arrange for such

special off-campus housing permission, the parent or legal guardian must come in person, write, or call the College before the student moves from her legal residence or from her previously approved off-campus residence to discuss the proposed plans. Appointments for housing interviews should be made with the Director of Residence during the academic year or during the summer recess. If the arrangements are agreeable, the parent or legal guardian must sign a Commuter Housing Permission Card stating that he or she has seen the proposed residence and takes full responsibility for the student's health, safety, and finances. Permission is official when the card is on file at the College. The College strongly recommends that two or more students live together. Should a student return to her legal home, she must notify the Director of Residence before moving.

Commuters are eligible for College-assigned housing only on a semester basis when space is available. They are not reclassified as residents. Priority is based on commuting difficulty, traveling distance and date of application. If a commuter is given special permission for off-campus housing, her name will be removed from the waiting list for College-assigned rooms unless she specifically requests that it remain.

Financial Aid for Room and Board

Students admitted as residents whose academic records and financial situation make them eligible for financial aid from the College will have the cost of board and room considered in the award when they are living in Brooks, Hewitt, or Reid Halls, or in 616 or 620 West 116th Street or Plimpton Hall and on the College meal plan. Students in "616," "620," and Plimpton Hall not on the College meal plan, as well as students assigned to the Fairholm who are eligible for financial aid, will have their need determined by the room rent and an allowance of \$250 for food. Those eligible for financial aid and living in Johnson Hall will have need computed on the basis of rent and required meal plan.

MARRIED STUDENTS

Students who plan to marry during the academic year and continue in college must notify the Dean of Studies in advance of the date of marriage. The College must receive assurance in writing from the student's parents or guardian that they are aware of her plans. Failure to comply with these conditions will make the student liable to dismissal. Married students, as a rule, will not be allowed to remain in the college residences. They will be subject to the financial obligations which pertain to any student who withdraws from the residence halls or from the College during the term.

THE OFFICE OF PLACEMENT AND CAREER PLANNING

The Office of Placement and Career Planning, maintained by the College as a service to alumnae and students, offers assistance in planning for and obtaining full- and part-time positions. Through personal interviews and an analysis of interests and experience, its staff helps to guide students and alumnae into occupations which utilize their capabilities to the fullest extent.

GENERAL INFORMATION

The Office, which is open throughout the year, keeps in close touch with the needs of employers through the hundreds of jobs referred to the College, through professional contacts of faculty and alumnae, and visits to schools and organizations in business and professional fields made by members of the placement staff. In cooperation with the Advisory Vocational Committee of the Associate Alumnae and a student-faculty committee, a program of vocational conferences and meetings is offered on the campus, giving students an opportunity to discuss specific fields of work with experts.

The Office of Placement and Career Planning helps undergraduates to find part-time jobs both on and off the Barnard campus. Typical jobs include baby-sitting, tutoring, sales and clerical work. Freshmen are discouraged from undertaking employment, since it is difficult at first to estimate the amount of time that can be safely spared from academic work. After the first year, a student with good health and sound academic standing should be able to carry part-time employment amounting to not more than ten or twelve hours per week. Student earnings during the college year average \$200.

Assistance in finding a summer job can be obtained through the Office of Placement and Career Planning. Approximately 75 per cent of the Barnard students work during the summer and their earnings average about \$500.



VII. Courses of Instruction

The College reserves the right to withdraw or modify any course or to change the instructors as may be necessary.

Course descriptions will be found in the following pages. Fuller information can be obtained from the chairmen of the departments at registration periods and during the academic year.

Room assignments are printed on separate sheets and distributed during registration.

Autumn Term courses are marked by odd numbers, Spring Term courses by even numbers, year courses by consecutive odd and even numbers. An even number followed by x indicates a course given in the Autumn Term. An odd number followed by suffix y indicates a course given in the Spring Term.

Indivisible courses which run throughout the year are marked with a hyphen between the numerals (History 1-2). No credit is given for work in an indivisible course dropped at midyear without the written consent of the instructor and the departmental chairman and the approval of the Committee on Programs and Academic Standing.

Divisible courses which run throughout the year are marked with a comma between the numerals (English 1, 2). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only if the written permission of the instructor is obtained.

Courses are arranged in examination groups to avoid conflicts on the examination schedule. The groups are indicated by boldface numerals following the course title (English Composition [**0**]). Group **0** includes courses which ordinarily do not have set examinations. No student may elect two courses in the same examination group, other than Group **0**, without a written statement from one or the other instructor that a conflict examination will be given. This statement must be filed by the student in the Registrar's Office. A complete list of courses by examination groups is given on pages 188-190.

COURSES OF INSTRUCTION

The following alphabetical prefixes designate the division of the University for whose students the course is primarily offered or indicate joint courses.

- C — Columbia College
- F — School of General Studies
- G — Graduate Faculties
- R — Program in the Arts
- V — Joint undergraduate course with Columbia College
- W — Other inter-faculty course

The level of the course in general is indicated as follows:

- 1000-3999 Undergraduate
- 4000-5999 Graduate, open to qualified undergraduates
- 6000-8999 Graduate, normally not open to undergraduates

The symbol *x* follows the number of a course given in the Autumn Term; the symbol *y* follows the number of a Spring Term course.

INTERDEPARTMENTAL OFFERINGS

I. FOREIGN AREA STUDIES

Officer in charge for 1968-69, PROFESSOR MESKILL.

The purpose of Foreign Area Studies is to provide an introduction to the study of some one foreign region or country of the world. The study is divided into three elements: language, a scholarly discipline, and a diversified approach to a region. Accordingly, a student who majors in Foreign Area Studies plans her program in four aspects:

1. Command of at least one appropriate foreign language. The competence expected varies according to the language; for specific requirements consult the officer in charge. In addition to the language courses offered at Barnard, courses in other languages are available at Columbia University.
2. Acquaintance with the basic knowledge and methods of an academic department, such as history or literature, not necessarily with reference to a specific region. The major adviser helps in the choice of courses.
3. Courses on a region or country viewed through both the social sciences and the humanities, including the discipline chosen in the second aspect of the major. Courses are chosen in consultation with the major adviser.
4. A senior seminar or equivalent work under the direction of the committee.

Foreign Area Studies majors are available in the following regions: England (see special program in British Civilization, page 49); Western Europe, with special reference to some one country; Russia; Asia, with special reference to certain regions (see Oriental Studies, page 122); and Latin America.

The major examination is in two parts: one examining knowledge of the chosen area in general and the other knowledge of the area in terms of the chosen discipline. Specially qualified students may be invited to write a senior thesis instead of the second part of the major examination.

A major in Foreign Area Studies is open to a limited number of qualified students whose applications are approved by the committee in charge. Freshmen and sophomores anticipating such a major should consult their class advisers and the officer in charge of Foreign Area Studies as early as possible. Before the junior year it is advisable for such students to complete as many of the college requirements as possible and to begin study of an appropriate foreign language.

II. AMERICAN STUDIES

This program is supervised by the Committee on American Studies:

BASIL RAUCH, Professor of History

ANNETTE K. BAXTER, Associate Professor of History (Chairman, 8A Lehman Hall)

BARBARA NOVAK, Associate Professor of Art History

CHRISTINE ROYER, Instructor in English

The purpose of the program is to develop understanding of American civilization considered as a whole. The results of specialized study in all fields of learning dealing with American subject matter are assembled for the work of the senior seminar.

INTERDEPARTMENTAL OFFERINGS

A major in American Studies: In order to acquire a broad understanding of American Civilization and acquaintance with various methods of studying it, a student who majors in American Studies must take the following:

- (a) Two courses selected from among ancient, medieval, or European history in any combination.
- (b) Two courses in American history.
- (c) Two courses in social science dealing primarily or partly with American subject matter, selected from a list issued by the chairman.
- (d) Two courses in humanities dealing primarily or partly with American subject matter, selected from a list issued by the chairman.
- (e) In the junior year American Studies 1-2, and in the senior year American Studies 3-4.

A research essay to be prepared in the senior seminar is required in lieu of the major examination.

1-2. Junior Readings.

[0]

Students will read selected classics in American Studies; brief written reports will be prepared for discussion. The aim of the course is to prepare the student to read, discuss, and write critically on interdisciplinary works.

PROFESSOR BAXTER. Biweekly meetings. Th 3:35-5:15.

3-4. Senior Seminar.

[0]

Individual research on diverse aspects of American civilization and presentation of results in seminar discussion in the form of the senior essay.

PROFESSOR BAXTER. W 4:10-6 and frequent conferences.

III. BRITISH CIVILIZATION

This program is supervised by the Committee on British Civilization:

STEPHEN E. KOSS, Assistant Professor of History

DAVID A. ROBERTSON, JR., Professor of English, Chairman

ELEANOR ROSENBERG, Professor of English

¹CHILTON WILLIAMSON, Professor of History

²GEORGE WOODBRIDGE, Associate Professor of History

Open to students who are interested in an interdisciplinary approach to learning within a broad general area. Particularly emphasizes historical and literary traditions of British Civilization, but is comprehensive enough to include specialized interests in the fields of imperial and commonwealth studies.

A student who wishes to major in British Civilization must obtain the approval of the chairman of the committee before March 1 of the sophomore year. By this time the applicant should have completed or be in the process of completing History 11-12. She should then plan, in consultation with her adviser, a program of study which will include:

- (a) The following required courses: History 11, 12; History G6327x-G6328x; Government 2; and a senior seminar, normally British Civilization 85-86.
- (b) Four additional half-year courses within the general area of British Civilization, of which two must be in English literature.

¹ Absent on leave, Spring Term.

² Absent on leave, 1968-69.

Senior requirement: A thesis, the length and standards of which will be set by the committee. Junior majors should consult with chairman during the Spring Term about placement in pertinent senior seminars.

IV. CONSERVATION OF NATURAL RESOURCES

This program is organized and administered by a committee of members of the Departments of Biology and Geology-Geography.

¹LEONARD ZOBLER, Professor of Geography, Chairman

DONALD D. RITCHIE, Professor of Biology

PATRICIA L. DUDLEY, Associate Professor of Biology

Conservation deals with the future of man's natural resources, and, therefore, with the future of man himself. In addition to natural resources essential to man, equally important are those which affect the quality of the environment, as parks and wildlife areas, protection of irreplaceable plant and animal species, and open space planning in metropolitan areas. Conservation also is very much concerned with environmental pollution, caused by the waste materials and technological processes of an industrial society.

The study of Conservation is thus a wedding of the earth and biological sciences to the social and behavioral sciences. The required program of study includes Biology 1-2; Geology 1, 2; Geography 3, 4; Economics 1, 2; Anthropology V3029y and a senior seminar. The program is rounded out by additional elective courses according to the student's interest. The following are suggested: biology (ecology and plant geography), geology (geomorphology and field geology), geography (soils and hydrology), government, sociology, philosophy. Students planning further studies in conservation, environmental science, or urban and regional planning are advised to take courses in mathematics and statistics. A summer field course in ecology is recommended.

V. MEDIEVAL AND RENAISSANCE STUDIES (two separate programs)

Officer in charge, PROFESSOR LORCH.

This program is supervised by the Committee on Medieval and Renaissance Studies:

¹HELEN H. BACON, Professor of Greek and Latin

HUBERT DORIS, Associate Professor of Music

²JULIUS S. HELD, Professor of Art History

MARISTELLA DE PANIZZA LORCH, Professor of Italian

ELEANOR ROSENBERG, Professor of English

HAROLD STAHLER, Professor of Religion

SUZANNE F. WEMPLE, Assistant Professor of History

BARRY ULANOV, Professor of English

PATRICIA H. LABALME, Lecturer in History

The purpose of these two separate programs is to provide an understanding of medieval and Renaissance civilizations on the basis of interdisciplinary studies. Students will take related courses in various departments. The programs will be set up individually with particular emphasis on one of the disciplines: art,

¹ Absent on leave, 1968-69.

² Absent on leave, Spring Term.

INTERDEPARTMENTAL OFFERINGS

history, one of the literatures, or music; advanced courses will be taken. Seniors will take part in a colloquium.

Prerequisite for Medieval Studies: History 3 The Early Middle Ages; History 4 The High Middle Ages.

Prerequisite for Renaissance Studies: History 4 The High Middle Ages and History 13 The Renaissance in Europe in the Fifteenth and Sixteenth Centuries, or (depending on the field of concentration) History 13 The Renaissance and History 14 The Reformation in Europe in the Sixteenth Century.

These courses may, in special cases, be taken simultaneously with required courses.

Language requirement for Medieval Studies: A reading knowledge of Latin and of one Romance or Germanic language. In special cases students may petition for another language.

Language requirement for Renaissance Studies: A reading knowledge of two languages, preferably Latin and Italian.

Required courses: (a) A minimum of eight one-semester courses within the general area of medieval or Renaissance civilization. Of these, at least three or four must be advanced courses in the field of concentration.

(b) A senior seminar to be taken at least for the first semester in the department of special interest.

(c) Participation in the Colloquium on Medieval and Renaissance Studies.

Colloquium on Medieval and Renaissance Studies.

Obligatory for each major in the second semester of her senior year. Juniors will be invited to participate. Students will be asked to deliver oral reports on the work they are doing in the department they have chosen for their specialization, and will also take part in general discussions on topics concerning the Middle Ages and the Renaissance. Independent reading and research on selected problems in medieval or Renaissance civilization will be incorporated in a senior essay of about thirty pages which the student will complete with the help and guidance of the department of specialization.

The colloquium will meet weekly for two hours and will be conducted by two faculty members of two departments participating in the program. In the first semester of their senior year, majors in Medieval and Renaissance Studies will be asked to participate in four obligatory meetings, one each month.

THE HERITAGE OF THE HUMANITIES

The following courses have been grouped together as illustrative of the diversified facets of our cultural heritage and traditions. No major is offered in this general area but, for suggestions as to further development of the material, please consult the chairman of one of the humanities or social science departments. Course descriptions may be found in the departmental statements.

Art History 1-2. Introduction to the Study of Art History.

PROFESSOR NYBERG.

[Classical Literature 35. The Ancient Novel.

PROFESSOR BACON. Not given in 1968-69.]

BARNARD COLLEGE

- Classical Literature 32. Classical Myth.** MR. SCHNEIDERMAN.
- Classical Literature C3123x. Greek Drama and Its Influences.**
MRS. GREENGARD.
- Classical Literature C3124y. Roman Literature.** MR. POUNCEY.
- English 82. Seminar in American Literature.** PROFESSOR KOUWENHOVEN.
- [English 83. Modern Literature and the Allied Arts.** PROFESSOR ULANOV.
Not given in 1968–69.]
- [French 23–24. The Culture and Institutions of France.** PROFESSOR GAVRONSKY.
Not given in 1968–69.]
- German 11. Expository Prose. Issues of General Interest in the German Press.**
MR. MARAMALDI.
- History 4. The High Middle Ages: A Survey from 1050 to 1450.**
PROFESSOR WEMPLE.
- Italian V1122y. Studies in the Italian Renaissance (in English).**
PROFESSOR LORCH.
- [Italian V1131x–V1132y. Dante, Petrarch, and Boccaccio.** PROFESSOR LORCH.
Not given in 1968–69.]
- Italian V3641x. The Italian Theater and Its Contribution to European Theater.**
PROFESSOR LORCH.
- Italian-English C3049x–V3050y. Italian and English Texts, 1300–1650.**
PROFESSORS HANNING and LORCH.
- Music 1–2. An introduction to Music.** PROFESSOR DORIS, MISS CARPENTER
and MR. COOPER.
- Oriental Civilizations V3355x–V3356y.** PROFESSORS DE BARY, DIEN,
GENTZLER, MESKILL, VARLEY, and WEBB, MR. GORDON, and MRS. MILLER.
- Oriental Humanities V3399x–V3400y.** PROFESSORS DE BARY, GENTZLER, HSIA,
MESKILL, MORRIS, and WAYMAN, MR. DOERINGER, MRS. MILLER, MRS. WAKIN, MR.
UNDERWOOD, and MR. VAN HORN.
- Philosophy 43, 44. Philosophical Implications of the Modern Novel.**
PROFESSOR BRENNAN.
- Religion 25. Religion in Contemporary Society.** PROFESSOR SNOOK.
- Religion 26. Religion in Contemporary Culture.** PROFESSOR STAHRMER.
- Spanish 13y. The Culture of Spain.** PROFESSOR GARCÍA-LORCA.

ANTHROPOLOGY

ASSOCIATE PROFESSORS: MORTON KLOSS (Chairman; 403 Lehman Hall),
ABRAHAM ROSMAN

ASSISTANT PROFESSORS: BETTE S. DENITCH, PAULA G. RUBEL, JOAN E. VINCENT

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSOR: CHARLES WAGLEY

ASSISTANT PROFESSOR: RALPH L. HOLLOWAY

LECTURERS: SHIRLEY S. GORENSTEIN, ROBERT L. STIGLER, JR.

Anthropology is the study of the biological and cultural development of man, and of the contemporary variety of human societies and their cultures. The student majoring in this field will develop a perspective on man and his ways that is not bound by her own time and culture, and she will find herself drawing upon the literature of such different disciplines as genetics, archaeology, ethnography, linguistics, and the social sciences. While the study of anthropology contributes to a liberal arts education, the student will also receive adequate preparation for further study in graduate school, or for employment in the growing field of applied social change.

Every major is expected to have a general knowledge of all the fields of anthropology and of their interrelationship. Anthropology 1-2 is required of all majors as a prerequisite to advanced work in the subject. All majors are also required to take Social Organization (V3011). Courses in archaeology, linguistics, physical anthropology and ethnographic areas are strongly recommended for majors. In the junior year, a major will take Readings in Anthropological Theory (41-42), and in her senior year Anthropology 51-52, a seminar for independent research.

In view of the incorporating and synthesizing nature of anthropology, majors will be urged to take well-balanced programs in the humanities, social sciences, and natural sciences, dependent upon the particular interests of the student.

Several major museums and libraries in New York offer exceptional opportunities for research. Various summer schools offer opportunities for research in archaeology and ethnography, and under certain circumstances such work may be credited toward the Barnard degree. Students interested in cultural anthropology will be encouraged, whenever possible, to conduct actual research among ethnic groups in the New York area or, during their summer vacations, in other localities.

In lieu of a major examination, each student in the required senior seminar (51-52) will write a senior thesis.

BASIC COURSES

1-2. Introduction to Anthropology.

[6]

The nature and diversity of man, his societies and cultures. Autumn Term: The problem of cultural diversity. Biological and cultural development examined in terms of evolutionary and ecological theory. Spring Term: The universals of culture. Comparative study of social, economic, and political organization, of religion, the arts and the individual; introduction to ethnological analysis and field research. Open to freshmen. PROFESSOR KLOSS. Tu Th 9:10-10:25.

BARNARD COLLEGE

V3201y. Physical Anthropology.

Evolutionary theory, population genetics, race, human paleontology and primate behavior. PROFESSOR HOLLOWAY. Tu Th 5:40–6:55.

Linguistics 21, 22. Introduction to Linguistics.

[5]

The nature of language. Characteristics of phonological and grammatical systems of the lexicon. Evolution of language. Role of linguistics in related disciplines. Modern techniques of linguistic analysis. PROFESSOR MALONE. M W F 2:10.

INTERMEDIATE COURSES

V1004x. Peoples of Africa.

Survey of African cultures, with intensive analysis of selected tribes and regions. PROFESSOR VINCENT. Tu Th 9:10–10:25.

V1024x. Ethnology of Eurasia.

Intensive analysis of selected ethnographic studies reflecting the cultural variation in the Old World. PROFESSOR DENITCH. M W F 10.

[28. **Peoples of the Middle East.** PROFESSOR ROSMAN. Not given in 1968–69.]

V3011x or y. Social Organization.

The institutions and organization of social life, particularly in the nonliterate societies. Kinship and locality in the structuring of society. Prerequisite: an introductory anthropology course. V3011x. PROFESSOR ROSMAN. Tu Th 2:10–3:25; V3011y. PROFESSOR VINCENT. Tu Th 7:10–8:25.

[16. **Comparative Cultural Systems.** PROFESSOR KLASS. Not given in 1968–69.]

V3027y. Culture and the Individual.

The development of personality in varying cultural contexts; child-rearing and socialization; the role of personality theories in analyzing social systems and situations of culture change. Prerequisite: an introductory anthropology course. PROFESSOR ROSMAN. Tu Th 2:10–3:25.

V3029y. The Archaeology of the New World.

A survey of the prehistoric past of native American cultures from the time of the aboriginal settling of the New World by Asian immigrants to that of European contact. Special emphasis upon the rise of the New World civilizations in Mexico and Peru and the processes leading to their development. Prerequisite: a year of introductory anthropology and the permission of the instructor. DR. STIGLER. M W 11–12:15.

V3032x. The Archaeology of the Old World.

A survey of the principal areas of cultural development in Europe, Asia, and Africa from the earliest beginning of human culture to the dawn of the first civilization. Prerequisite: a year of introductory anthropology and the permission of the instructor. DR. STIGLER. M W 11–12:15.

[V3034y. **Language and Culture.** PROFESSOR PITKIN. Not given in 1968–69.]

V3037y. Societies in Transition.

An analysis of the changes that are taking place in traditional societies in the twentieth century. Emphasis is on the influence of the traditional cultures on the new institutions. Prerequisite: an introductory anthropology course. PROFESSOR DENITCH. M W F 10.

V3042y. Primitive Religion.

Ideological systems of simple or preindustrial cultures. Relations between religion and other aspects of culture. Prerequisite: an introductory anthropology course. PROFESSOR VINCENT. Tu Th 10:35–11:50.

V3049x. Theory and Results in Archaeology.

Archaeological interpretations of cultural processes, with a survey of past and present theories. Illustrative material from archaeologically significant areas of the world. Prerequisite: the permission of the instructor. DR. GORENSTEIN. M W 7:10–8:25.

V3050y. Field Archaeology.

Introduction to archaeological techniques and methods of interpreting data. Approximately seven field sessions, supplemented by classroom work. Students must pay for their transportation and food when on the trips. Prerequisite: the permission of the instructor. DR. GORENSTEIN. S 9–12.

FOR MAJORS ONLY

41–42. Readings in Anthropological Theory.

[0]

Selected readings in major theoretical concepts current in cultural and physical anthropology today. Required of all majors in their junior year. PROFESSORS DENITCH, RUBEL, and VINCENT. Section I, M 2:10–4. Section II, Tu 4:10–6. Section III, W 2:10–4.

V3700x. Colloquium: Anthropological Problems in Complex Societies.

Study of the local community and its relationship to regional and national societies. Discussion of plural societies, minority and ethnic groups in a cross cultural setting. Cases will be selected from Africa, Latin America, Asia, Europe, and North America. PROFESSOR WAGLEY. Hours to be arranged.

51–52. Anthropology Seminar.

[0]

Independent reading and research, oral reports, and group discussion of problems and interests. The senior essay. Required for senior majors. PROFESSORS KLASS, ROSMAN and RUBEL. Th 4:10–6.

GRADUATE COURSES

Certain graduate courses, listed in the Announcement of the Graduate Faculties, are open to qualified majors with the consent of the department. Attention is drawn to the following:

G4108y. Peoples of Mexico and Guatemala.

G4110x. The Cultures of Contemporary Brazil.

G4122x. Human Ecology.

G4151x. Chinese Society.

G4162y. Peoples of the Old World—India and South Asia.

G4235y. Ecological Studies in Archaeology.

ART HISTORY

PROFESSORS:¹ JULIUS S. HELD (Chairman; 301A Barnard Hall), JOHN A. KOUWENHOVEN

VISITING PROFESSOR: MARIE-THERESE D'ALVERNY

ASSOCIATE PROFESSORS: BARBARA NOVAK, DOROTHEA NYBERG

VISITING ASSISTANT PROFESSOR: GEORGE STRICEVIC

STUDIO ASSISTANT: VICTORIA BARR

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION IN BARNARD COLLEGE:

ASSISTANT PROFESSORS: JAMES H. BECK, ANN E. FARKAS, ANN SUTHERLAND HARRIS, DAVID ROSAND

INSTRUCTORS: ROSEMARY M. ARNOLD, PRISCILLA SOUCEK, DORIS SRINIVASAN

Art is a unique form of human expression. A study of its history will often provide a surprisingly vivid insight into the intellectual currents, the religious doctrines and practices, and the social institutions of the past. The student will see to what extent the unfolding of art is determined by conditions existing outside it, and by the impetus given it by the great creative personalities. She will in consequence gain a deepened understanding of the art of our own time and an ability, often fully appreciated only after she has left college, to enjoy intelligently the great accumulation of art in museums all over the world.

Courses in the history of art are generally of the lecture type. In some courses a third hour offers opportunities for discussions in small groups. Several courses schedule trips to museums and in other ways take advantage of the resources of New York, one of the world's great centers of art. Elementary art practice is taught only in connection with Course 1-2, but students are encouraged to take any course for which they qualify in the Department of Painting and Sculpture, School of the Arts of Columbia University. See page 59 for regulations governing these courses.

Majors in Art History are required to take the Senior Seminar, 97-98, and should plan to take courses in ancient, medieval, Renaissance, baroque and modern art. Studio courses do not count towards the major. Students planning to do graduate work should acquire a reading knowledge of at least two of the foreign languages in which major contributions to the history of art have been made. (Most graduate schools require a reading knowledge of French and German.)

The major examination, to be taken at the end of the senior year, consists of two sections of three hours. The first section of the exam tests the overall knowledge of the student in the field of Art History. The second section tests her ability to identify individual works of art and her competence in one special field. In special cases a senior thesis may be substituted for one of the sections of the major examination. The topic for the senior thesis should be chosen in consultation with the appropriate officer of instruction before the end of the first term.

¹ Absent on leave, Spring Term.

1-2. Introduction to the Study of Art History.**[5]**

A survey of Western architecture, sculpture and painting. Autumn Term: Greek and classical art, medieval art, and Renaissance art in Italy. Spring Term: Renaissance art in the North, the sixteenth century to the present. Historical and interpretive analysis of form and content, and correlation of the visual arts with their respective cultural surroundings. Laboratory work: Experiment in drawing and collage designed to explore the function of color and the formal organization of paintings, accompanied by a detailed analysis of specific works of art. Laboratory fee, \$5 per term. PROFESSOR NYBERG. Lec. M W 2:10, third hour to be arranged. Lab. (2 hours) Tu W 9-10:50, 11-12:50; Tu 2:10-4; 4:10-6; and if necessary W 3:10-5. MISS BARR.

43, 44. Introduction to Ancient Art.**[4]**

Autumn Term: A survey with emphasis on the major arts of architecture, painting and sculpture of Egypt, Mesopotamia, the early Aegean and archaic Greece. PROFESSOR FARKAS. M W F 1:10.

Spring Term: The art of classical and Hellenistic Greece and of Rome down to the time of Constantine. Open to all except freshmen. Either term may be taken separately. MRS. ARNOLD. M W F 1:10. Visits to the Metropolitan Museum of Art at hours to be arranged.

51, 52. Medieval Art.**[2]**

Autumn Term: Christian art from its beginnings in the late antique world in Mediterranean countries through the early Christian and Byzantine periods, with emphasis on mosaics and illuminated manuscripts, followed by the Celtic and Carolingian styles of western Europe. Spring Term: Romanesque sculpture and architecture of Italy and France and Gothic architecture, sculpture, and painting, ending with the introduction of the Italian Renaissance into France. Open to all except freshmen. PROFESSOR STRIČEVIĆ. M W F 10. Visits to the Metropolitan Museum of Art, the Pierpont Morgan Library, and the Cloisters.

54. Christian Iconography.**[5]**

A study of the sources of Christian iconography in Scriptures and other texts, and of the role played by Jewish and Hellenistic traditions. The crystallization of iconographical patterns under the influence of liturgy and the liturgical drama and their codification in manuals of painting. PROFESSOR STRIČEVIĆ. M W 2:10-3:25.

57. Medieval Illustrations of Scientific, Theological, and Philosophical Concepts. [6]

PROFESSOR D'ALVERNY. Tu Th 9-10:15.

[61. European Architecture from the Renaissance through the Rococo Style.

Not given in 1968-69.]

[63. Italian Renaissance Sculpture. Not given in 1968-69.]**64. European Sculpture, Baroque to Modern.****[13]**

The development from Benvenuto Cellini and later sixteenth-century masters up to contemporary directions of the twentieth century. Special emphasis will be given to Bernini, Rodin, and Picasso. Open to all except freshmen. PROFESSOR NYBERG. Tu Th 3:35-4:50.

65, 66. Italian Painting of the Renaissance.

[9]

Autumn Term: The development of Florentine, Sienese and North Italian painting of the Trecento, and the dramatic changes, under the influence of classical antiquity, made by the masters of the Quattrocento. Stress will be laid on Giotto, Duccio, Masaccio, Ucello, Piero della Francesca, Mantegna, Piero di Cosimo, and Botticelli. PROFESSOR BECK. Tu Th 2:10-3:25.

Spring Term: The art of the great masters of the High Renaissance, the development of parallel movements in local schools, especially Parma and Venice, and the emergence of new ideals in the art of Mannerism. Emphasis will be given to Leonardo da Vinci, Michelangelo, Raphael, Correggio, Giorgione, Titian, Tintoretto, Veronese, Pontormo, Salviati, Barocci. PROFESSOR HARRIS. Tu Th 2:10-3:25.

67. Renaissance Painting in Northern Europe.

[2]

Painting of the Flemish, Dutch, French, and German schools from the end of the Gothic period through the sixteenth century. Emphasis on Van Eyck, Van der Weyden, Bosch, Bruegel, Dürer, and Grünewald. Open to all except freshmen. PROFESSOR NOVAK. M W 10:35-11:50.

[68. Prints and Drawings. PROFESSOR HELD.

Not given in 1968-69.]

[13]

71. European and American Architecture from the Eighteenth Century to the Present.

The development of Neoclassical architecture in eighteenth-century Europe and its influence on American architecture; the interaction of historic styles and new structural techniques in the nineteenth century; Louis Sullivan and the development of the skyscraper; finally, American and European architecture of the twentieth century. Open to all except freshmen. PROFESSOR NYBERG. Tu Th 3:35-4:50.

75, 76. European Painting since the Renaissance.

[8]

Autumn Term: Baroque and Rococo. Painting in Italy, France, England, Flanders, Holland, and Spain from 1600 to the middle of the eighteenth century, with emphasis on Caravaggio, the Carracci, Poussin, Rubens, Rembrandt, Velazquez, Watteau, Hogarth, and Tiepolo.

Spring Term: Neoclassicism, Romanticism, Realism, Impressionism, and post-Impressionism. Painting from the late eighteenth century to 1900. Emphasis will be on the developments in France, from David to Cézanne and Seurat, but with attention to Goya, Constable, and Turner as well. Open to all except freshmen. PROFESSOR ROSAND. Tu Th 10:35-11:50.

77. American Art from Colonial Times to the Armory Show.

[10]

The development of the arts in America from Colonial times to the Armory Show of 1913 with special emphasis on Realism and Romanticism in the nineteenth century. Open to all except freshmen. PROFESSOR NOVAK. M W 3:10-4:25.

78. Modern European and American Painting.

[10]

Fauvism, Cubism, Dada, Surrealism, abstract art and other twentieth-century movements. The impact of radical European innovation in America during and after the Armory Show, and the evolution of a variety of native styles from Marin and Hopper through abstract expressionism to the present. Open to all except freshmen. PROFESSOR NOVAK. M W 3:10-4:25.

81. The Literature of Art.**[8]**

Study of the literary sources used in art historical research; artists' letters, journals and treatises (by Leonardo, Rubens, Delacroix, Van Gogh), contemporary biographies (Vasari and Van Mander), the ideas and writings of leading critics and scholars (Burckhardt, Wölfflin, Worringer, Berenson, Fry, Panofsky and Malraux). Visual material will be discussed. Intended for junior majors, but also open to senior majors. PROFESSOR NOVAK. Tu 10-12.

[82. Problems in American Painting. PROFESSOR NOVAK.

Not given in 1968-69.]

[83. Masterpieces of Art in the New York Museums. PROFESSOR HARRIS.

Not given in 1968-69.]

84. (English 84). The Vernacular in the American Arts of Design.**[13]**

The conflict between the "cultivated" and "vernacular" styles. The development of an American aesthetic in technology, architecture, fine arts, literature, and other arts. PROFESSOR KOUWENHOVEN. Tu 3:35-5:25.

[91. The Arts of China. PROFESSOR MURASE. Not given in 1968-69.]**[92. The Arts of Japan. PROFESSOR MURASE. Not given in 1968-69.]****93, 94. The Art of India and of the Near East.****[9]**

Autumn Term: A survey of architecture, sculpture and painting of India and Southeast Asia from prehistoric times to the nineteenth century, with special emphasis on the great religions of India: Buddhism, Jainism, and Hinduism. DR. SRINIVASAN. Tu Th 2:10-3:35.

Spring Term: An introduction to ancient Near Eastern art from prehistoric to Sasanian times and a survey of Islamic art from its beginnings in North Africa and Syria in the seventh century to the art of the Mughal emperors of India, the Shahs of Iran, and the Sultans of Turkey in the sixteenth to nineteenth centuries. MRS. SOUCEK. Tu Th 2:10-3:35.

97-98. Seminar for Majors.**[5]**

A discussion of special problems of art history, chosen to give students an insight into basic questions and methods pertaining to this field. During the first term students will give brief oral reports, preferably on objects related to their own field of interest or area of specialization. The second term will be designed to prepare the students for the major exam. Autumn Term: PROFESSOR HELD. Spring Term: PROFESSOR NOVAK. Section I Th 8:10-10 p.m. Section II F 2:10-4.

STUDIO COURSES

A maximum of 4 courses of studio work may be credited. Students taking more than 2 courses of studio work are required to validate the additional credit with courses in Art History. Students may register only with written permission of the departmental representative (PROFESSOR RACZ, Cooper Hall, and, after 2 courses, with that of PROFESSOR HELD as well). For further details see the Bulletin of the School of the Arts. Credit for the following: 1 course each term.

Drawing R1001x, R1002y; R1003x, R1004y. Drawing Workshop.

Model fee: \$10.00 per term. PROFESSORS GOLDIN and RACZ, and MESSRS. GOLFINOPOULOS and HARRISON. Section I M W 1:10-4. Section II Tu Th 1:10-4. Section III M W 7:10-10 p.m. Section IV Tu Th 7:10-10 p.m.

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Painting R1011x, R1012y; R1013x, R1014y. Painting Workshop.

Model fee: \$10.00 per term. PROFESSOR GOLDIN, and MESSRS. GOLFINOPOULOS, STAMOS, and STEFANELLI. Section I M W 1:10-4. Section II Tu Th 1:10-4. Section III M W 7:10-10 p.m. Section IV Tu Th 7:10-10 p.m.

Painting R1017x, R1018y. Painting and Design.

Laboratory fee: \$10.00 per term. MR. STEWART. Tu Th 9-11:50.

Printmaking R1041x, R1042y. Woodcut and Wood Engraving.

Laboratory fee: \$10.00 per term. MR. UCHIMA. Tu Th 7:10-10 p.m.

Printmaking R1043x, R1044y. Etching and Engraving.

Laboratory fee: \$10.00 per term. MR. HARRISON. Tu Th 1:10-4.

Sculpture R1023x, R1024y. Clay Modeling and Drawing.

Model fee: \$10.00 per term. MR. PADOVANO. Tu Th 7:10-10 p.m.

Sculpture R1025x, R1026y. Carving and Design.

Laboratory fee: \$10.00 per term. MESSRS. CAMPBELL and SWARZ. Section I M W 9-11:50. Section II M W 7:10-10 p.m.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified majors with the consent of the chairman of the department and the major adviser. A description of these courses will be found in the Announcement of the Graduate Faculties. The following courses are specifically recommended as suitable for Barnard seniors:

G4015y. The Impact of non-European Cultures on European Art.

PROFESSOR WITTKOWER. W 4:10-6.

G4264x. Pompeii and Ostia. PROFESSOR FRAZER. W 2:10-4.

G4375y. Gothic Art in the Thirteenth Century. PROFESSOR BRANNER. W 10-11:50.

G4430x. Italian Renaissance Sculpture. PROFESSOR BECK. W 2:10-4.

G4520y. Baroque Sculpture. PROFESSOR HIBBARD. Th 4:10-6.

G4619y. European Realism in the Nineteenth Century. PROFESSOR NOCHLIN. W 2:10-4.

G4635y. Post-Impressionism. PROFESSOR REFF. Th 10-11:50.

G4660x. Modern Architecture-Twentieth Century. PROFESSOR COLLINS. Th 10-11:50.

BIOLOGICAL SCIENCES

PROFESSORS: WILLIAM A. CORPE, JOHN A. MOORE, DONALD D. RITCHIE (Chairman; 316 Milbank)

ASSOCIATE PROFESSORS: PATRICIA L. DUDLEY, FREDERICK E. WARBURTON

ASSISTANT PROFESSORS: DAVID W. EHRENFELD, PATRICIA N. FARNSWORTH

ASSISTANT: LINDA B. GREENBERG

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION IN BARNARD COLLEGE:

PROFESSOR: JOSEPH MAZZEO

ASSISTANT PROFESSOR: DAVID ZIPSER

The major program is designed to serve a variety of needs. Some students major in biology who, though interested in general education, desire specific knowledge of living organisms. Other students specialize in biology in anticipation of graduate work in this field, or in preparation for medical or dental school. Still others plan a career in government, educational or private research organizations, or wish to teach at the elementary or intermediate school level.

The sequence of courses to be followed will depend on the ultimate aims of the student and will be planned in consultation with members of the department. The most important thing to keep in mind is that careful planning of the entire course sequence in biology and related fields is necessary to provide a balanced program and to assure that any prerequisites for advanced courses are completed in proper time.

Course 1-2 should be elected by those students who had a standard biology course in high school, as well as by those who have had no previous training in biology. Students who have taken either a high school course based on the BSCS curriculum, or an Advanced Placement Biology course, may with the permission of the department elect other courses. Some courses taken outside the department may be counted toward a biology major.

Biology V1097x and Biology W1095x-W1096y are recommended courses, but may not be counted toward the biology major requirement.

Chemistry 1, 8, and 41 fulfill the minimum requirements in chemistry for graduate work in biology and for entrance into medical school, and this amount is generally regarded as the minimum for biology majors as well. A year of general physics, 3-4, should be taken by majors who plan on graduate work or a career in medicine. Graduate work in biology requires a knowledge of German and French (or some other modern language). College mathematics, including calculus, is strongly recommended.

Students are encouraged to do summer work in biological laboratories or field stations. Assistance toward such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund or the Herbert Maule Richards Fund.

The major examination in biology consists of questions selected from a list covering many aspects of modern biology, and the Graduate Record Examination.

Research projects may be selected by students desiring to do individual work. They are usually related to current faculty research and may lead to professional publication. Greenhouse space and laboratory equipment are made available for such projects.

1-2. General Biology.

[1]

The development of biological knowledge, with emphasis on unsolved problems and the nature of scientific evidence; energy relations of living things, cellular activities, inheritance, development and differentiation, evolution, ecology, and social implications. STAFF. Lec M W F 9. Lab. (3 hours) M 1:10-4; Tu 9-11:50; 2:10-5; W 1:10-4; Th 9-11:50; 2:10-5; F 1:10-4.

[F3241x. **Plant Diversity and Interaction.** PROFESSOR LIER. Not given in 1968-69.]

V3031x. Introduction to Genetics.

Classical genetic segregation, recombination, and linkage, and their cytological bases. Gene replication and expression and their molecular bases. Prerequisites: introductory biology or equivalent. A course in calculus and a course in organic chemistry should precede this course or be taken concurrently. PROFESSORS WARBURTON AND ZIPSER. Lec. Tu Th 10. Lab. M W or Th 1:10-3.

6. Evolution.

[1]

A consideration of the theories and data relevant to the origin and evolution of living forms, with emphasis on animals. Prerequisite: a year of college-level biology. PROFESSOR WARBURTON. Lec. M W 9. Laboratory-conferences (4 hours) to be arranged.

7. Invertebrate Zoology.

[8]

Evolution of invertebrate animals. Comparative study of microscopic and gross structure, physiology, life histories, behavior and distribution of invertebrates. Major emphasis on evolution. Some field trips to representative habitats. Prerequisite: A year of college-level biology. PROFESSOR DUDLEY. Lec. Tu Th 11. Lab. (4 hours) M 1:10-5 or Th 2:10-6.

8. Ecology.

[4]

The interaction of invertebrate and vertebrate animals with their physicochemical and biological environment. Dynamics of population structure, rhythms, behavior, competition, and adaptation. Prerequisite: a year of college-level biology. PROFESSOR DUDLEY. Lec. M W F 1:10. Field trips to be arranged.

9. Cytology.

[7]

The biology of cells: composition, development, and activities of cell walls, membranes, mitochondria, plastids, and chromosomes. Laboratory includes practice in fixation, sectioning, homogenization, smears, photomicrography, and specialized types of microscopy. Prerequisite: a year of biology with laboratory. Permission of instructor required. PROFESSOR RITCHIE. Lec. Tu Th 10. Lab (6 hours) individually arranged.

10. Microbiology.

[5]

An introduction to the study of microorganisms, with emphasis upon the bacteria. Their general biology, physiology, pathogenesis and importance in human economy will be emphasized. Prerequisite: a year of biology with laboratory. PROFESSOR CORPE. Lec. M W 2:10. Demonstration W 3:10-4.

V1097x. Man and Nature.

Man's attempts to describe his place in nature, his ecology, and his impact on the environment; population growth; race; science as a force in the modern world. The biological bases of some of the intellectual, social, and political problems that face man today. May not be counted toward major. PROFESSOR MOORE. Tu Th 11-12:15.

W1095x-W1096y. History of Biology.

A general survey of the historical development of the biological sciences, with readings in the primary sources. Lectures, discussions, and reports. May not be counted toward major. PROFESSOR MAZZEO. Lec. Tu Th 1:10. Conf. 1 hour to be arranged.

[14. Developmental Biology. Not given in 1968-69.]

15. Cellular Physiology. [4]

An interpretation of vital phenomena at the cellular level in terms of known laws of physics and chemistry. Topics to be discussed will include the functional organization of cells; the relation of cells to their environment; molecular biology and physiology of membranes; bioenergetics; and the irritability and contractility of cells. Prerequisites: Biology 1-2, or the equivalent; Physics 3-4; Chemistry 42 (preceding or parallel); or permission of the instructor. PROFESSOR FARNSWORTH. Lec. M W 1:10 and Conf. F 1:10. Lab (4 hours) Tu 2:10-6 or W 2:10-6.

61, 62. Problems in Zoology. [0]

Independent work will be planned to suit the needs of the student after consultation with the instructors. STAFF. Hours and credit by arrangement.

71. Senior Seminar. [0]

Reading of literature and discussion of fundamental problems of zoology. PROFESSOR WARBURTON. Hours by arrangement.

G4061x. Biology of Microorganisms.

Morphology and chemical and physical structure of microbial cells; growth and general physiology; and the influence of environment on nutrition, enzymes, and metabolism of representative microbial species with emphasis on the bacteria. The lecture series counts as one course for Barnard students. Prerequisite: one year of college biology, one course in organic chemistry and the instructor's permission. PROFESSOR CORPE. Lec. Tu Th 2:10. Lab. Tu Th 3:10-5 and 1 hour to be arranged.

G4212y. Animal Behavior.

Classification of behavior and behavior patterns; the control, development, and evolution of behavior; the adaptive significance of behavior; sensory processes, rhythmic activities, orientation and navigation. Students will work on individual behavior projects with invertebrates or vertebrates. Prerequisites: one year of biology with laboratory and the instructor's permission. PROFESSOR EHRENFELD. Lec. M W 11 and Conf. F 11. Lab (4 hours) to be arranged.

G6062y. Advanced Microbiology.

Nature, function, and biosynthesis of ultrastructural components of microbial cells. Selected topics of current importance in bacterial physiology. The lecture series alone counts as one course for Barnard students. Prerequisite: Course G4061x or the equivalent and permission of the instructor. PROFESSOR CORPE. Lecture: Tu Th 2:10. Lab. Tu Th 3:10-5 and one hour to be arranged.

CHEMISTRY

PROFESSORS: EDWARD J. KING (Chairman), EMMA D. STECHER

ASSISTANT PROFESSORS: BERNICE SEGAL,

LECTURER: GRACE W. KING

ASSISTANTS: BARBARA GOODSTEIN, LIBBY MILLER, SUSAN SLOSBERG

Chemistry majors seek to understand the structure of proteins, why nickel chloride is green, how xenon reacts with fluorine, the peculiar bonds in boron hydrides and benzene, and other aspects of the nature of substances and their transformations. Chemists have taken a leading part in the development of our modern scientific and technological society. The influence of chemistry on other sciences is indicated by the growth of such advanced disciplines as biochemistry and molecular biology, chemical physics, and geochemistry. Upon graduation, some chemistry majors obtain research positions in chemical industry and medical laboratories. Others become technical writers or editors or science librarians. Many continue with graduate work in chemistry or related sciences or enter medical and other professional schools.

A student who is interested in chemistry should consult a representative of the department for advice in planning her program. In the first year she should take Courses 1-8 and start or continue the study of calculus. It is then possible for her to fulfill the basic requirements for the major in three years and to take advanced courses in the senior year. Students who have taken an Advanced Placement Course in secondary school may be given advanced placement and credit if they obtain a score of 4 or 5 on the examination and present evidence of satisfactory laboratory experience. A list of major requirements, several possible course sequences, and information about the major examination may be obtained from members of the department. Majors who complete a specific program receive an accrediting certificate from the American Chemical Society.

The laboratories of the department are modern and well equipped both for course work and for independent projects. Experience with modern instruments begins in the first-year course. Students may undertake independent projects under the guidance of members of the department. This has been done recently during both the academic year and the summer, and some of the work has been published in chemical journals. Short projects may also be undertaken in several of the courses of the first three years.

1. General Elementary Chemistry. [6]

A study of chemical principles with applications to inorganic chemistry. No credit will be given for Course 1 unless Course 2 or Course 8 is completed. PROFESSOR KING, DR. KING, and assistants. Lec. Tu Th 9:10-10:25.

Recitation and laboratory for students with no previous chemistry: M 1:10-4:30.
Recitation and laboratory for all other students, one afternoon: Tu 2:10-5:30 or W, Th, or F 1:10-4:30.

2. General Chemistry. [1]

Properties of inorganic, organic, and biochemical systems are surveyed and interpreted. A terminal course for majors in fields other than science. Prerequisite: Course 1. PROFESSOR, DR. KING and assistants. Lec. M W F 9.
Recitation and laboratory one afternoon: M 1:10-4:30 or Tu 2:10-5:30.

- 8. Qualitative Analysis and Electrolytic Solutions.** [6]
A study of ionic compounds and ionic equilibria. Prerequisite: Course 1. Course 8 is a prerequisite for further work in chemistry. PROFESSOR SEGAL, DR. KING and assistants. Lec. Tu Th 9:10–10:25. Laboratory one afternoon: W Th or F 1:10–5.
- 41. Basic Principles of Organic Chemistry.** [3]
Typical reactions of aliphatic compounds with an introduction to aromatic chemistry and emphasis on modern theories. Laboratory work in organic preparations. Prerequisite: Course 8. Laboratory deposit, \$20. PROFESSOR STECHER and assistant. Lec. M W F 11–12:10. Laboratory one afternoon: Tu 2:10–5:30, W Th 1:10–4:30.
- 42. Further Aspects of Organic Chemistry.** [3]
Lectures emphasize aromatic chemistry and more complex molecules including carbohydrates and proteins. Required for biology majors and premedical students. Prerequisite: Course 41. PROFESSOR STECHER. Lec. M W F 11–12:10.
- 44. Modern Practices of Organic Chemistry.** [9]
An introduction to qualitative and quantitative organic analysis and to advanced techniques, including instrumental and chromatographic methods, with a library problem and a short project. Majors must take this course, but it is not required by most medical schools. Prerequisite: Course 41. Laboratory deposit, \$20. PROFESSOR STECHER and assistant. Lec. Th 1:10. Laboratories two afternoons: Tu Th and if warranted, W 1:10–5.
- 51. Chemical Thermodynamics and Kinetics.** [2]
The laws of thermodynamics and their application to chemical systems; kinetic molecular theory; rates of chemical reactions; crystals. Chemistry majors should take Course 57 in parallel. Prerequisite: Course 8; Mathematics 15, 16 and Calculus III (C1201x) preceding or parallel; Physics 3–4 or equivalent. PROFESSOR SEGAL. Lec. M W F 10. Recitation: one hour to be arranged.
- 52. Electrochemistry and Electrolytes.** [7]
Thermodynamics of heterogeneous systems, nonelectrolyte and electrolyte solutions, and surfaces; electrochemistry; analytical processes. Prerequisite: Course 51. PROFESSOR Lec. Tu Th 10:35–11:50.
- 54. Atomic and Molecular Structure.** [2]
Introduction to quantum and statistical mechanics and chemical bonding. Prerequisite: Course 51. PROFESSOR SEGAL. Lec. M W F 10. Recitation: one hour to be arranged.
- 57. Physical Chemistry Laboratory.** [0]
Experiments illustrating the physico-chemical approach to the study of liquids and gases, thermochemistry, chemical and phase equilibria, chemical kinetics, electrochemistry and radiochemistry. Prerequisite: Course 8; Mathematics 15, 16; Physics 3–4. Parallel: Course 51. Laboratory deposit, \$20. PROFESSOR Lab. M W 1:10–4 or Tu Th 2:10–5, if warranted by registration.
- 58. Advanced Analytical Laboratory.** [0]
The quantitative investigation of chemical systems; instrumental methods of analysis; construction and characteristics of electronic circuits of instruments. Prerequisite: Courses 51 and 57. Preceding or parallel: Course 52. Laboratory deposit, \$20. PROFESSOR KING. Lab. M W 1:10–4 and, if warranted by registration, Tu Th 2:10–5.

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63. Advanced Laboratory Course.

[0]

Laboratory investigations arranged to suit the individual student who seeks more experience in synthetic inorganic or organic chemistry or who wishes to explore more thoroughly selected instrumental methods. Prerequisite: three years of college chemistry. Laboratory deposit, \$20. STAFF. Hours to be arranged.

C3072y. Introductory Biochemistry.

Mechanistic and quantitative aspects of intermediary metabolism, with some discussion of macromolecular properties. Prerequisite: Course 42. PROFESSOR DAWSON. Tu 9-10:50 and Th 10.

87, 88. Problems in Chemistry.

[0]

Advanced individual laboratory projects for students who have completed the major requirements. Laboratory deposit, \$20 each session. PROFESSORS KING, STECHER, SEGAL, and Eight hours by arrangement.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the major adviser to qualified majors.

DRAMA

DIRECTOR OF THE MINOR LATHAM PLAYHOUSE: KENNETH JANES (218 Milbank Hall),
Associate Professor of English

ASSISTANTS TO THE DIRECTOR: JANET SOARES, DONALD PACE

The Minor Latham Playhouse is the center of activities for Barnard students interested in the theater. Majoring in various departments, the students bring to the Playhouse their special abilities and the experience of such courses as those listed below. For further information, consult PROFESSOR JANES. Students participate in the staged productions, the experimental and classic drama, dance and opera studio projects of The Barnard College Theatre Company. The Gilbert and Sullivan Society and the Spanish, French, German, Russian, and Italian clubs work in close cooperation with the theater program. The Barnard Bulletin's drama column and WKCR (the Columbia radio station) offer other opportunities to develop abilities related to the theater arts. Barnard's location in New York enables students to attend productions on and off Broadway.

Among the courses concerned with the theater are these, described in detail in the departmental announcements:

ENGLISH

- 13, 14. **Dramatic Writing.** PROFESSOR TEICHMANN.
21. **Voice and Diction.** PROFESSOR NORMAN and MISS CAUGHRAN.
- 23, 24. **Oral Interpretation of Literature.** MISS CAUGHRAN.
- 27y. **Public Speaking.** PROFESSOR NORMAN.
- [28. **Public Speaking.** (Spring Term) PROFESSOR NORMAN. Not given in 1968–69.]
- 33, 34. **Play Production.** PROFESSOR JANES and MR. PACE.
- 35, 36. **The Actor's and Director's Interpretation of Dramatic Literature.**
PROFESSOR JANES.
- 63, 64. **Shakespeare.** PROFESSOR PATTERSON.
69. **English Drama from Its Beginnings to 1642.** PROFESSOR PATTERSON.
- [70. **English Drama from the Restoration to the End of the Eighteenth Century.**
Not given in 1968–69.]
86. **Drama from Ibsen to the Present.** PROFESSOR ULANOV.

FRENCH

- 17–18. **French Phonetics.** PROFESSOR PLEASANTS.
- [39. **Twentieth Century (I).** Not given in 1968–69.]

GERMAN

- [25. **German Drama in the Nineteenth Century.** Not given in 1968–69.]

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GREEK AND LATIN

Classical Literature C3123x. Greek Drama and Its Influences. MRS. GREENGARD.

Greek V3305x. Tragedy. PROFESSOR PORTER.

[Greek V3307x. Greek Comedy. PROFESSOR BENEDICT. Not given in 1968–69.]

ITALIAN

V3641x. The Italian Theater and Its Contribution to European Theater.

MUSIC

V1005y. The Opera. PROFESSOR BEESON.

V1109x, V1110y. History of Dance. MRS. ROOSEVELT and MR. SORELL.

PHYSICAL EDUCATION

It is recommended that students take work each term in body mechanics. The courses in modern dance and fencing are particularly useful.

RUSSIAN

V1229x. Russian Drama and Theater. PROFESSOR BELKNAP. Tu Th 11–12:15.

SPANISH

[21–22. The Spanish Drama. PROFESSOR UCELAY. Not given in 1968–69.]

ECONOMICS

PROFESSORS: MARION HAMILTON GILLIM, RAYMOND J. SAULNIER (Chairman, 410 Lehman Hall)

ASSISTANT PROFESSORS: DEBORAH D. MILENKOVITCH, JEAN WILBURN

INSTRUCTOR: MARY M. McDUGALL (Part-time)

ASSISTANT: ANNA M. SACHKO

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION TO BARNARD STUDENTS:

PROFESSORS: PHILLIP CAGAN, AARON W. WARNER

ASSISTANT PROFESSORS: JAMES HEILBRUN, ROGER C. LAWRENCE, MERLE YAHR

LECTURER: MANOUCHER PARVIN

As a major in economics, a student may arrange a program, with the help of her departmental adviser, to suit her individual needs and interests. For those planning graduate study in economics, special attention to economic analysis and statistics is recommended. Suitable programs can be arranged for students desiring to enter other professional schools or planning to go directly into careers in business, research, government or teaching. An appropriate sequence of courses can be planned, also, for the student whose interest is primarily in economics as a basis for informed citizenship.

A student majoring in economics will be required to take Courses 1 and 2; 27 or 28; and the senior seminar, 51–52. Courses 7, 8 and both 17 and 18 are strongly recommended.

Other social sciences: In view of the essential unity of the social sciences, a major is required to take, in addition to a minimum of 8 courses in economics, one course in each of two of the following departments, selected in conference with her adviser: anthropology, geography, government, history, philosophy, psychology, religion, sociology.

Each student is required to prepare a research paper in connection with the senior seminar, 51–52. No major examination is required.

1. Introductory Economics.

A study of basic economic concepts with emphasis on the analysis of the aggregate economy. Subjects covered include national income and its determination, business and labor organizations, business cycles, government finance and monetary economics. PROFESSORS GILLIM, WILBURN and MILENKOVITCH, and an additional instructor to be announced. Section I M W F 10. [2] Section II M W F 11. [3] Section III M W F 1:10. [4] Section IV Tu Th 10:35–11:50. [7]

2. Introductory Economics.

Subjects covered include the determination of price and income distribution through supply and demand; monopoly and antitrust policy; international economics; problems of developing nations; and alternative economic systems. PROFESSORS GILLIM, WILBURN and MILENKOVITCH, and an additional instructor to be announced. Section I M W F 10. [2] Section II M W F 11. [3] Section III M W F 1:10. [4] Section IV Tu Th 10:35–11:50. [7]

- 7. United States Economic History.** [4]
The causes of economic growth in America during the less developed years between the Colonial period and the Civil War. Emphasis will be on immigration, slavery, domestic and international trade, technological innovations, and capital movements as they changed the relations among the factors of production—land, labor, capital and entrepreneurship. PROFESSOR WILBURN. M W F 1:10.
- 8. United States Economic History.** [4]
The development of the American economy from the Civil War to the present time. Changes in the structure of market demand, in costs, and in technology will be examined for their effect on industrial and financial institutions. The focus of interest will be on the enterprise system and the evolving role of government in it. PROFESSOR WILBURN. M W F 1:10.
- 16. Government Finance and Fiscal Policy.** [9]
Principles of government expenditure and taxation, and the American systems of spending and taxing. Government debt; government finance in relation to the distribution of national income and wealth and to economic growth and stability; and intergovernment fiscal relations in the United States and in common markets. Prerequisite: Courses 1, 2 or permission of instructor. PROFESSOR GILLIM. Tu 2:10–4.
- 17, 18. Introductory Statistics.** [1]
Autumn Term: The gathering, processing, presentation and analysis of statistical data; linear correlation; and an introduction to statistical inference. Spring Term: Index numbers; time series; nonlinear correlation; and other techniques used in the social sciences. Prerequisite: Course 17. PROFESSOR GILLIM. Lec. M W 9. Lab. (2 hours) M 2:10–4 or Tu 2:10–4 or 4:10–6.
- [23. International Economics.** PROFESSOR GILLIM.
Not given in 1968–69.]
- [24. The Latin American Economy.** PROFESSOR GILLIM.
Not given in 1968–69.]
- 25, 26. Contemporary Economic Issues.** [5]
A survey of the leading economic issues in present-day American life, including international as well as domestic questions. Lectures and discussion. Open to all except freshmen. Either term may be taken separately. PROFESSOR SAULNIER. M W 2:10–3:25.
- 27. Intermediate Macroeconomics.** [2]
Keynesian and neo-Keynesian analyses of the aggregate economy. Prerequisite: Courses 1, 2. PROFESSOR WILBURN. M W F 10.
- 28. Intermediate Microeconomics.** [2]
Theory of consumer demand, the pricing of goods and services in perfect and imperfect competition, the pricing of the factors of production, and a brief history of these ideas. Prerequisite: Courses 1, 2. PROFESSOR WILBURN. M W F 10.

29. The Economics of Underdeveloped Areas.**[8]**

The economic, demographic, social and cultural forces affecting the economic growth of underdeveloped countries. A short paper is required. Prerequisite: Courses 1, 2 or permission of instructor. PROFESSOR MILENKOVITCH. Tu Th 10:35–11:50.

30. Comparative Economic Systems.**[8]**

An analysis of the principles of planned and market economies. Systems are compared from a theoretical point of view and through the study of typical economies: the United States, the Soviet Union, China, Yugoslavia and France. Prerequisite: Courses 1, 2 or permission of instructor. PROFESSOR MILENKOVITCH. Tu Th 10:35–11:50.

33. Economic Planning.**[9]**

Planning techniques such as input-output analysis and linear programming and their applications to economic policy. Planning of national economies in Western Europe, Soviet bloc and underdeveloped countries. Regional planning, including metropolitan regions. Prerequisites: One of the following courses: Economics 16, 27, 28, 29 or 30. PROFESSOR MILENKOVITCH. Th 2:10–4.

51–52. Economics Seminar.**[0]**

Reading, reports, and discussion centering around the preparation of a senior essay. Required for senior majors. PROFESSOR SAULNIER. W 3:30–5:30.

61, 62. Studies in Economics.**[0]**

Additional credits may be obtained in this course for independent work done in connection with some other course in economics. Special reports, a term paper, or the completion of supervised field work is required. The course may be repeated. MEMBERS OF THE DEPARTMENT.

G4713x–G4714y. Financial Institutions.

A study of the functioning of the principal public and private agencies comprising the financial system of the United States from the point of view of their relation to the flow of money payments and the process of capital formation. Open to seniors. Prerequisite: Courses 1, 2 and at least two other courses in economics. PROFESSOR SAULNIER. Tu 2:10–4.

F3111x. Intermediate Mathematics for Economists.

Elementary set theory, matrices and vectors, linear algebra, differential and integral calculus, with their applications to economic theory. Prerequisite: Two semesters of calculus. MR. PARVIN. M W 4:10–5:25.

C3041y. Monetary Economics.

The nature and role of money; banking system of the United States, including role of the Federal Reserve; the relation of money to price levels, business cycles, and economic stabilization; international monetary relations and institutions; current problems and policies of monetary management. Prerequisite: Courses 1, 2. PROFESSOR CAGAN. Hours to be announced.

W3251x. Industrial Organization and Public Control of Industry.

Organization and structure of American industries and their markets. Competitive behavior, pricing policies, and market performance. Antitrust policy and other forms of public regulation. Impact of technological change on organization structure and theory. Prerequisite: Courses 1, 2. PROFESSOR WARNER. M W 1:10–2:25.

F3451y. Economics of Labor.

Structural characteristics of the organization of the labor force. Factors determining size, allocation, and remuneration of labor force. Labor unions. Public policy questions and analytical tools available to deal with them. Prerequisite: Courses 1, 2. PROFESSOR YAHR. M W 11:00-12:15.

G4228y. The Urban Economy.

Past and present economic functions of cities. Growth of metropolitan areas. Location theory, theories of site rent and urban form; analysis of the urban economic base. Impact of changing technology and social structure on central cities and suburbs. Problems of older central cities, including transportation, public finance, housing, and urban renewal. Effects of federal policy. The future of the city. Prerequisite: Courses 1, 2 and at least two other courses in economics. PROFESSOR HEILBRUN. Tu Th 10; F 1:10.

G4901x. Introduction to International Economics.

The role of international trade in resource allocation and the consequence of trade for economic welfare; the balance of payments and foreign exchange market; balance of payments disequilibrium and adjustment; international financial institutions and policy; the theory of protection and commercial policy; trade and development; economic integration. Prerequisite: Courses 1, 2 and at least two other courses in economics. PROFESSOR LAWRENCE. M W 11 and a third hour to be arranged.

GRADUATE COURSES

Certain other graduate courses given at Columbia University are open to qualified majors with the consent of the department and the major adviser. A description of these courses will be found in the Announcements of the Graduate Faculties and the Graduate School of Business.

EDUCATION

The following interdepartmental program is supervised by the Committee on Education:

MARTHA PETERSON, President, *ex officio*

HELEN P. BAILEY, Dean of Studies, Professor of French, *ex officio*

JOSEPH G. BRENNAN, Professor of Philosophy

LAWRENCE A. CREMIN, Frederick A. P. Barnard Professor of Education, Columbia University

PATRICIA ALBJERG GRAHAM, Associate Professor of Education (Chairman; 313 Barnard Hall)

RICHARD A. NORMAN, Associate Professor of English

BARBARA S. SCHMITTER, Associate Dean of Studies, Associate Professor of Psychology

¹CHILTON WILLIAMSON, Professor of History

RICHARD P. YOUTZ, Professor of Psychology

²LEONARD ZOBLER, Professor of Geography

The Education Program does not constitute a major; it is taken in conjunction with a major in some other subject.

The program is open to qualified Barnard students whose applications are approved by the Committee on Education. With the psychology requirement (Psychology 5 or 27) and a course in methods of teaching a specific subject (normally taken at Teachers College), a student who completes the Education Program receives a New York State Provisional license, which is valid for five years. A permanent license requires a master's degree, which need not include any additional work in education.

All students are enrolled in Education 3-4, which is directly concerned with the principles and practice of classroom teaching. In addition, they take either History 65 in the Autumn Term or Philosophy 84 in the Spring Term.

Before the end of the sophomore year, students interested in teaching should confer with the director of the Education Program. Juniors who wish to apply for admission to the program should file application forms, which may be obtained in the office of the Education Program during the Autumn Term.

Education 3-4. Introduction to Teaching in the Secondary School.

[13]

This course affords observation and student teaching in secondary schools. The accompanying seminar examines contemporary issues in American education. Individual conferences assess pedagogical problems encountered in student teaching. Student teaching may be done, preferably during one term four to five half-days a week, or during two terms two half-days a week. All students participate in the seminar during both terms. If all student teaching is done in one term, it will be designated Education 3 (I) or 4 (I) and will be considered equivalent to two courses, even though credit for Education 3-4 will be equally distributed in both terms. Prerequisite: admission to Education Program. PROFESSOR GRAHAM. Seminar: Tu 4:10-6.

¹ Absent on leave, Spring Term.

² Absent on leave, 1968-69.

History 65. History of Education in the United States.

[5]

The development of American education in the context of social and intellectual history. PROFESSOR GRAHAM. W 2:10-4.

Philosophy 84. Philosophy of Education.

[4]

The values and goals of education; a study of contemporary problems against classical background. Selections from the works of Plato, Aristotle, Locke, Rousseau, Newman and Dewey, as well as contemporary critics like Conant, Bell, Scheffler, Bruner, Goodman and McLuhan. Not open to freshmen. PROFESSOR BRENNAN. M W F 1:10.

ENGLISH

PROFESSORS: W. CABELL GREET (Emeritus), JOHN A. KOUWENHOVEN, DAVID A. ROBERTSON, JR., ELEANOR ROSENBERG, ELEANOR M. TILTON, BARRY ULANOV (Chairman, 408D Barnard Hall)

ADJUNCT PROFESSOR: HOWARD M. TEICHMANN

ASSOCIATE PROFESSORS: KENNETH H. JANES (Director of Minor Latham Playhouse),
¹RUTH M. KIVETTE, RICHARD A. NORMAN, REMINGTON P. PATTERSON (Departmental Representative, 408B Barnard Hall)

ADJUNCT ASSOCIATE PROFESSORS: JOY CHUTE, ELIZABETH HARDWICK

ASSISTANT PROFESSORS: ANTHONY G. HENDERSON, JOANN RYAN MORSE (Director of English A, 401B Barnard Hall), ANNE LAKE PRESCOTT, CATHERINE R. STIMPSON

ADJUNCT ASSISTANT PROFESSOR: ELLEN MOERS

ASSOCIATES: ELIZABETH CAUGHRAN, MARJORIE HOUSEPIAN DOBKIN

LECTURERS: MAIRE J. SAID, JANICE FARRAR THADDEUS (Examinations Officer)

INSTRUCTORS: ELIZABETH DALTON; (Part-time) RUTH M. MATHEWSON, KATHERINE MURRAY MILLETT, CHRISTINE ROYER

ASSISTANTS: MARGARET D. HANCE, BARBARA ODABASHIAN, DONALD PACE, JANET SOARES

OFFICER OF COLUMBIA UNIVERSITY GIVING INSTRUCTION TO BARNARD STUDENTS:
PROFESSOR: JAMES L. CLIFFORD

All courses in English are open to nonmajors. The course descriptions list prerequisites and state which classes have limited registration.

A student majoring in English is expected to increase her knowledge of literary history and the development of the English language, to become familiar with the works of a number of the principal writers in English, to gain in ability to interpret and appreciate a variety of literary texts, and to improve her speech and her writing. The major examination requires the candidate to interpret and evaluate selected passages of prose and verse and to compose an essay on a literary topic. Further accounts of the structure of the examination will be supplied at majors' meetings.

In consultation with her departmental adviser, the major will plan her program to include three half-year courses numbered 53-69 (or 69y), three half-year courses numbered 70-88 (excepting Course 82), and Course 93 (or 93y) in the junior year. In addition, a **major in literature** will take one section of Course 97 and one section of Course 98. A **major in writing** will take three half-year courses numbered 3-14; she may count toward the major no more than two courses numbered 3-6. A **major in speech** will take Course 21 and two additional courses in speech.

Normally, the program should include at least one half-year course in Anglo-Saxon or in Middle English. Course 90 (The English Language: History and Use) is strongly recommended for prospective teachers. The program may include additional courses in the department and should include work in such related fields as English and American history, foreign literatures, the history of art, and philosophy. Students who plan to do graduate work will do well to extend their reading knowledge of foreign languages.

¹ Absent on leave, 1968-69.

INTRODUCTORY

A. Reading and Writing.

[0]

An approach to literary skills through intensive reading, regular assignments in composition, and discussion; frequent individual conferences with the instructor. Prescribed for all freshmen. Other English courses open to freshmen in the Autumn Term are Courses 21 and 27, either of which may be taken parallel to A. With the written permission of the instructor, a freshman may elect a literature course in the Spring Term. PROFESSOR MORSE and MEMBERS OF THE DEPARTMENT. Sections of Course A meet at the following hours: M W F 9, 10, 11, 12:10, 1:10, 2:10. M 3:10-4 and W 3:10-5. Tu Th 9:10-10:25, 10:35-11:50, 2:10-3:25. ~ ~ ~

Room assignments will be posted outside 401 Barnard Hall.

2. English Composition.

[0]

For students who need additional work in composition at the first-year level. Emphasis on sound organization and clear expression. Cannot be counted toward a major in English. PROFESSOR PRESCOTT. Hours to be arranged.

40. Seminars on Special Themes.

[0]

Each section will examine in detail a topic which relates the study of literature and the use of the English language to other disciplines. Frequent papers and individual conferences. Topics will be announced in November 1968. Those offered in the Spring Term 1968 included Modern Irish Writers, The Power of Satire, Literature and Psychoanalysis, The Contemporary British Stage, The Uses of Fantasy, English Literature: 1890-1910, Voices of Crisis: The Language of Advocacy and Dissent, and Rebels, Writers, and Revolutionaries.

Open to a limited number of freshmen and sophomores who have satisfied the basic requirement in English A. Registration through the class advisers. Course 40 may be accepted, with the approval of the major adviser, in partial fulfillment of the major requirement.

MEMBERS OF THE DEPARTMENT. Sections will meet at the following hours: M W F 10, 11, 12:10; 1:10; 2:10. Tu Th 9:10-10:25; 10:35-11:50; 2:10-3:25.

WRITING

Registration in each course is limited, and the written permission of the instructor is required; signed departmental registration blanks are to be filed with Mrs. HANCE (401 Barnard Hall). Before registering for a course numbered 7-14, a student should have earned a grade of B- or better in at least one of the courses numbered 3-6. Two writing courses may not be taken concurrently unless one of the two is Course 13 or 14. Course 93 (or 93y) is to be counted as a writing course.

3, 4. Structure and Style.

[0]

English composition above the first-year level. Frequent individual conferences. Students may take either term or both.

- I. Fiction and personal narrative. MISS DALTON. M 2:10-4.
- II. (Autumn Term only) Essays. MISS MILLETT. M 2:10-4.
- III. Autumn Term: exposition. Spring Term: poetry. MRS. THADDEUS. M 3:10-5.

6. Advanced Composition.**[0]**

The members of the class will keep daily journals and work up the material in finished papers, fiction and nonfiction. MRS. DOBKIN. Th 3:10-5.

7, 8. Experiments in Writing.**[0]**

Advanced work in various forms. Individual conferences with the instructor. PROFESSOR HARDWICK and MISS DALTON. Th 2:10-4.

11, 12. Story Writing.**[0]**

Advanced work in writing, with emphasis on the short story. Individual conferences with the instructor. Some experience in the writing of fiction is prerequisite to this course. PROFESSOR CHUTE. Tu 4:30-5:25.

13, 14. Dramatic Writing.**[0]**

The development of a dramatic situation in terms of short fiction, the theater, television, motion pictures, and radio. Completed works are discussed, given dramatic readings by the class, and recorded on tape. PROFESSOR TEICHMANN. Tu Th 2:10-3:25.

SPEECH AND DRAMA

The work of English majors with a special interest in speech should include Course 21 and two half-year courses in public speaking, discussion and debate, voice and diction, or oral interpretation. To elect any course in speech, a student must secure the written permission of PROFESSOR NORMAN. The Barnard College Theatre Company and the Columbia radio station, WKCR, offer practical experience.

Students who have a special interest in the drama will find a summary of activities and courses related to that field on page 67.

21 [or 21y]. Voice and Diction.**[0]**

Training in voice production and clear articulation. Designed to improve the student's speech through drill, practice in reading aloud, the presentation of oral reports, and extemporaneous speaking. Use of the language laboratory. Registration limited to 15 students. PROFESSOR NORMAN and MISS CAUGHRAN. Section I (Spring Term only) M W F 11. Section II M W F 1:10.

[22. Voice and Diction. MISS CAUGHRAN. Not given in 1968-69.]

23, 24. Oral Interpretation of Literature.**[0]**

Study of literary texts for oral presentation. Autumn Term: poetry. Spring Term: dramatic poetry and drama. MISS CAUGHRAN. M W F 10.

27y. Public Speaking.**[0]**

Study of the basic principles of speaking in public, with emphasis on the evaluation and organization of materials, on audience psychology, and on effectiveness of delivery. Individual conferences with the instructor. PROFESSOR NORMAN. Tu Th 10:35-11:50.

[28. Public Speaking. PROFESSOR NORMAN.

Not given in 1968-69.]

33, 34. Play Production.

[0]

A study of the ways in which the dramatic arts fulfill the intention of the playwright. Theater dynamics in terms of actors, directors, and all technical aspects of staging. Permission of the instructors required. PROFESSOR JANES and MR. PACE. M 3:10-5. Lab. (2 hours) to be arranged after first meeting.

35, 36. The Actor's and Director's Interpretation of Dramatic Literature.

[0]

Study and practice in classic and contemporary dramatic literature by actors and directors. Permission of the instructor required. PROFESSOR JANES. F 3:10-5.

LANGUAGE AND LITERATURE

For nonmajors, courses marked § will count toward the general college requirement. Course 40 (see page 76) may be accepted, with the approval of the major adviser, in partial fulfillment of the major requirement.

§41, 42. Introduction to English Literature.

A general view of the scope and variety of English literature through study of selected writers and their works. Autumn Term: Chaucer through Milton. Spring Term: Dryden to the present. PROFESSORS MORSE, PRESCOTT, and HENDERSON. Section I M W F 11. [3] Section II M W F 1:10. [4]

53. Anglo-Saxon Language and Literature.

[1]

An introduction to the study of Anglo-Saxon. PROFESSOR GREET. W F 9.

§55. Chaucer.

[7]

Chaucer's *Canterbury Tales*. PROFESSOR GREET. Tu Th 10:35-11:50.

[§56. Chaucer and his Contemporaries.

Not given in 1968-69.]

58. Medieval Literature.

[6]

English and Continental literary works from the fourth to the fifteenth century, studied in the original or in translation. PROFESSOR ULANOV. Tu Th 9:10-10:25.

§63, 64. Shakespeare.

[3]

A critical and historical introduction to Shakespeare. About fifteen plays—comedies, histories, and tragedies—will be read each term, with emphasis on the major plays in the Autumn Term. PROFESSOR PATTERSON. M W F 11.

§66. Spenser and the Tudor Renaissance.

[2]

Humanism, the Reformation, the New World; courtly poetry and popular prose from Skelton and More through Sidney and Nashe, with special attention to Edmund Spenser. PROFESSOR ROSENBERG. M W F 10.

§67. Donne and Seventeenth-Century Literature.

[2]

Donne and the "metaphysicals"; Jonson and the Cavalier poets; Raleigh, Bacon, Browne, Burton, and the new science; prose and poetry in the age of Marvell. PROFESSOR ROSENBERG. M W F 10.

§68. Milton.

[4]

Milton's major poems, important minor poems, and selected prose works; his literary reputation from the seventeenth century to the present. PROFESSOR ROSENBERG. M W F 1:10.

- §69. English Drama from Its Beginnings to 1642.** [5]
 Medieval drama, Tudor interludes, Elizabethan, Jacobean, and Caroline drama (excluding Shakespeare), with emphasis on Marlowe, Jonson, and Webster. PROFESSOR PATTERSON. M W F 2:10.
- §70. English Drama from the Restoration to the Eighteenth Century.**
 Not given in 1968–69.]
- §72. The Novel.** [12]
 The English novel before 1900, including works by Fielding, Richardson, Jane Austen, Brontë, Dickens, George Eliot, Hardy, and James. DR. MOERS. M W F 12:10.
- §73, 74. English Literature of the Eighteenth Century.** [8]
 Autumn Term: Pope, Swift, and the Augustans. Spring Term: Dr. Johnson and his circle, and the pre-Romantics. PROFESSORS CLIFFORD and MIDDENDORF. Tu Th 10:35–11:50 and other meetings to be arranged.
- §76. Prose and Poetry of the English Romantics.** [6]
 The thought and style of Blake, Wordsworth, Coleridge, Hazlitt, Lamb, De Quincey, Byron, Keats, and Shelley. PROFESSOR TILTON. Tu Th 9:10–10:25.
- §77. The Victorian Age in Literature.** [5]
 Prose and verse concerning problems of society and of religion: Carlyle, Disraeli, Macaulay, Mill, Newman, Huxley, Tennyson, Browning, Arnold. PROFESSOR ROBERTSON. M W F 2:10.
- §78. Victorian Poetry and Criticism.** [5]
 Poems by Tennyson, Browning, Arnold, Rossetti, Meredith, Morris, and Swinburne. Essays by Ruskin, Arnold, Meredith, Pater, and Wilde. PROFESSOR ROBERTSON. M W F 2:10.
- §79. American Literature, 1775–1885.** [9]
 The Revolutionary period and the major American Romantics: Hawthorne, Poe, Melville, Emerson and the Transcendentalists, Whitman. PROFESSOR TILTON. Tu Th 2:10–3:25.
- §80. American Literature, 1865–1965.** [9]
 The experimenters in prose and poetry from James to the present. MISS ROYER. Tu Th 2:10–3:25.
- §82. Seminar in American Literature.** [0]
 Topic for this term: 1855, the year of Whitman's *Leaves of Grass*. Each student will be responsible for studying and reporting on another book that appeared the same year. PROFESSOR KOUWENHOVEN. W 9–11.
- §83. Modern Literature and the Allied Arts.** PROFESSOR ULANOV.
 Not given in 1968–69.]
- 84 (Art History 84). The Vernacular in the American Arts of Design.** [13]
 The conflict between the "cultivated" and "vernacular" styles. The development of an American aesthetic in technology, architecture, fine arts, literature, and other arts. PROFESSOR KOUWENHOVEN. Tu 3:35–5:25.

- §85. Modern British and American Poetry.** [9]
The thought and style of Hardy, Hopkins, Yeats, Auden, Thomas, Robinson, Stevens, Eliot, and more recent writers; the literary movements with which they are associated. PROFESSOR ULANOV. Tu Th 2:10-3:25.
- 86. Drama from Ibsen to the Present.** [9]
Reading of English, Continental, and American plays, of which the most important will be analyzed in class. PROFESSOR ULANOV. Tu Th 2:10-3:25.
- [87. Major American Writers and Their Foreign Sources.** PROFESSOR TILTON.
Not given in 1968-69.]
- §88. The Modern Novel.** [5]
Works by Conrad, Forster, Lawrence, Joyce, Virginia Woolf, Beckett, and others. PROFESSOR MORSE. M W F 2:10.
- 90. The English Language: History and Use.** [1]
An introduction to the history of words, pronunciation, and structure in the light of literary tradition and linguistic science. PROFESSOR NORMAN. M W F 10.
- 93 (or 93y). Literary Criticism: Analysis and Evaluation.** [0]
The purpose of the course is to provide experience in the reading of literary texts and some knowledge of conspicuous works of literary criticism. Frequent short papers. Registration in each section is limited. Students must file departmental registration forms with MRS. HANCE (401 Barnard Hall) before completing their programs.

All English majors are required to take Course 93 (or 93y) in the junior year. Transfer students should plan to take it in the Autumn Term. If registration allows, a few sophomores and nonmajors may be admitted on application.

PROFESSORS ROBERTSON, ROSENBERG, HENDERSON, MORSE, PRESCOTT, and STIMPSON.
Section I Tu 3:35-5:25. Section II W 3:10-5. Section III Th 3:35-5:25.
- 97, 98. Studies in Literature.** [0]
Open to majors and nonmajors. These seminars provide opportunities for intensive study of subject matter to which students have already been introduced in other courses. Registration in each section is limited, and the written permission of the instructor is required. Departmental registration forms must be secured from MRS. HANCE and returned to her (401 Barnard Hall).

All English majors who elect advanced work in literature, rather than in writing or speech, are required in the senior year to take one section of 97 and one of 98. Other students who satisfy the prerequisites will be admitted to the seminars if the section lists have not been filled. Prerequisites may be satisfied with courses in other departments.
- 97. (Autumn Term)**
- I. Medieval Literature and Linguistics. Prerequisite: two of Courses 53, 55, 56, 58, 90. PROFESSOR GREET. W 3:10-5.
 - II. Renaissance Studies. Prerequisite: one of Courses 66, 67, 68. PROFESSOR ROSENBERG. W 3:10-5.
 - V. Eighteenth-Century Studies: The Uses of Wit. Prerequisite: permission of the Instructor. PROFESSOR HENDERSON. Th 3:35-5:25.

- VIII. American Studies: Reason, Romance, and Reality. Prerequisite: permission of the instructor. PROFESSOR TILTON. W 3:10-5.
- XI. Studies in Style: Film and Word. Prerequisite: permission of the instructor. PROFESSOR ULANOV. Tu 3:35-5:25.

98. (Spring Term)

- III. The Age of Shakespeare. Prerequisite: permission of the instructor. PROFESSOR PATTERSON. W 3:10-5.
- VI. Romantic Studies: Rebellion and Reaction. Major Work of Blake and Wordsworth. Prerequisite: permission of the instructor. PROFESSOR TILTON. W 3:10-5.
- VII. Victorian Studies. Prerequisite: one of Courses 77, 78. PROFESSOR ROBERTSON. W 3:10-5.
- IX. Conscience and Consciousness: Two Themes in Modern Literature. Prerequisite: permission of the instructor. PROFESSOR STIMPSON. Th 3:35-5:25.
- XII. The Spirit of Comedy: The Major Comic Writers in English. Prerequisite: permission of the instructor. PROFESSOR MORSE. Th 3:35-5:25.

FRENCH

PROFESSORS: HELEN PHELPS BAILEY, LEROY C. BREUNIG (Chairman; 16 Milbank Hall)

ASSOCIATE PROFESSORS: RENÉE GEEN, MAURICE Z. SHRODER

ASSISTANT PROFESSORS: SERGE GAVRONSKY, TATIANA GREENE, HERMINE RIFFATERRE

LECTURER: PATRICIA TERRY

INSTRUCTORS: ERICA ABEEL (Part-time), MAXINE CUTLER, DANIELLE HAASE-DUBOSC, FREDERICK HARRIS (Part-time), EDWARD KAPLAN (Part-time), KATHLEEN MICKLOW (Part-time), SELMA DE LA QUÉRIÈRE (Part-time), DOMNA STANTON

OFFICER OF COLUMBIA UNIVERSITY GIVING INSTRUCTION IN BARNARD COLLEGE:
PROFESSOR: JEANNE VARNEY PLEASANTS

The objective of a student majoring in French is twofold: a) to perfect fluency in the written and the spoken language and b) to develop an understanding and appreciation of the literature and culture of France.

The student in consultation with her major adviser will plan her program to include the following: either Course 21–22, 23–24 or 25–26; either of the two language courses 11 and 12; the phonetics course 17–18; four one-term literature courses numbered 31–42; two one-term seminars numbered 51–54. Only seniors with honor grades may elect Course 59–60, Senior Thesis.

The program may include additional courses from the department's offerings along with work in related fields such as art history, French history, and other subjects which vary with the interest of the student. Majors who plan to do graduate work are urged to acquire a reading knowledge of Latin.

Examinations: 1. The Junior French Test, given in the spring of each year, is a two-hour written test based upon French literary history, literary terms, and a selected list of masterpieces. New majors should obtain this list from their advisers.

2. The major examination consists of a four-hour written section containing an *explication de texte*, a critical essay, and translation passages; and an individual oral exam of approximately a half-hour. Students who take Course 59–60 (Senior Thesis) will be exempt from the written part, and the thesis defense will constitute the oral section.

FOREIGN LANGUAGE REQUIREMENT FOR THE DEGREE: New students who have already given evidence of advanced training in French may automatically be exempted from the requirement. All other new students who intend to satisfy their foreign language requirement in French will, depending upon their preparation, be placed immediately in the appropriate language course or be asked to take a placement test or an exemption test. Those receiving a sufficiently high grade in the latter test will fulfill the requirement. The others may do so by completing Courses 5 and 6 (or 9) or Course 5 alone with a minimum grade of B+.

LANGUAGE COURSES

All courses are conducted in French.

1-2. Elementary Full-Year Course. [14]

Grammar, reading, composition. Work in the language laboratory is required.

MRS. ABEEL, MRS. STANTON,

Section I M Tu W Th F 9. Section II M Tu W Th F 10. Section III
M Tu W Th F 11.

3, 4. Intermediate Course. [14]

Review of grammar and syntax. Translation, reading, oral practice, free composition. Work in the language laboratory is required. Prerequisite: Course 1-2 or two years of high school French and an appropriate score on the placement test. PROFESSORS GEEN and GREENE, DR. CUTLER, MRS. HAASE-DUBOSC, MR. HARRIS, MRS. MICKLOW, MRS. DE LA QUÉRIÈRE, DR. TERRY.

Sections Ia and b M W F 10.

Section III M W F 2:10.

Sections IIa and b M W F 12:10.

Section IV Tu Th 10:35-11:50.

4x. Intermediate Course, Part II. [14]

The equivalent of Course 4 but given in the Autumn Term. Prerequisite: Course 3 or three years of high school French and an appropriate score on the placement test. PROFESSOR GREENE, DR. CUTLER,

Section I M W F 10. Section II Tu Th 10:35-11:50. Section III
Tu Th 2:10-3:25.

5, 6. Third-Year Course. [14]

The study of literary texts as a basis for improving the comprehension of written and spoken French. Translations into English. Compositions and oral practice. Work in the language laboratory is required. Prerequisite: Course 3, 4 or three years of high school French and an appropriate score on the placement test. PROFESSORS GAVRONSKY, GREENE, RIFFATERRE, and SHRODER, MRS. ABEEL, DR. CUTLER, MRS. HAASE-DUBOSC, MR. HARRIS, MR. KAPLAN, MRS. MICKLOW, MRS. DE LA QUÉRIÈRE.

Sections Ia and b M W F 9.

Section V Tu Th 9:10-10:25.

Sections IIa and b M W F 10.

Sections VIa and b Tu Th 10:35-11:50.

Sections IIIa and b M W F 11.

Section VII Tu Th 2:10-3:25.

Sections IVa and b M W F 12:10.

5y. Third-Year Course. Part I. [14]

The equivalent of Course 5 but given in the Spring Term. Prerequisite: Course 4 or 4x. PROFESSOR GEEN, MRS. HAASE-DUBOSC, MRS. DE LA QUÉRIÈRE. Section I M W F 10. Section II Tu Th 10:35-11:50. Section III Tu Th 2:10-3:25.

6x. Third-Year Course. Part II. [14]

The equivalent of Course 6 but given in the Autumn Term. Prerequisite: Course 5, 5y, or three years of high school French and an appropriate score on the placement test. PROFESSOR BREUNIG, DR. TERRY, MR. HARRIS, Section I M W F 11. Sections IIa and b M W F 12:10. Section III Tu Th 2:10-3:25.

BARNARD COLLEGE

- 9. Composition and Conversation.** [0]
Weekly compositions designed to improve writing skill. Review of grammar and syntax. Pronunciation, recitation, conversations based on selected readings. Work in the language laboratory is part of the course. Prerequisite: Course 5 or a satisfactory score on the placement test. This course satisfies the language requirement. Limited to 15 students. PROFESSOR RIFFATERRE. M W F 1:10.
- 9y. Composition and Conversation.** [0]
The equivalent of Course 9 but given in the Spring Term. PROFESSOR RIFFATERRE. M W 2:10-3:25.
- 11. Advanced Composition and Translation into French.** [0]
Intensive written practice, and translation from English of various styles of prose and poetry. Primarily for French majors. PROFESSORS GEEN and RIFFATERRE. M W 2:10-3:25.
- 12. Advanced Composition and Translation into English.** [0]
Intensive written practice, and translation from French of various styles of prose and poetry. Primarily for French majors. PROFESSOR GAVRONSKY and MRS. HAASE-DUBOSC. M W 2:10-3:25.
- 14. History of the French Language.** [5]
A study of the distinguishing characteristics of the French language in their relation to literary expression from the Middle Ages to the present. Prerequisite: French 21-22 or the written permission of the instructor. DR. TERRY. M W 2:10-3:25.
- 17-18. French Phonetics.** [0]
Study of spoken French: conversational and literary; aural-oral practice supplemented by analysis of the structure (content and form) of selected passages from French literature. Work in the language laboratory is part of the course. Primarily for French majors. Limited to 20 students. PROFESSOR PLEASANTS. M W F 9.

LITERATURE COURSES

Students who have not taken Course 21-22, 23-24, or 25-26 must receive written permission from the instructor in order to take the more advanced literature courses beginning with 31.

For nonmajors, courses marked thus § will count toward the general college requirement. All Barnard courses are conducted in French.

- §21-22. Masterpieces of Literature from the Middle Ages to the Twentieth Century.** [14]
Lectures and discussions in French on the history of French literature. Analysis of texts, essays, and reports on outside reading. Autumn Term: *La Chanson de Roland* through Molière. Spring Term: Voltaire through Proust. Prerequisite: Course 6 or a satisfactory score on the placement test; or Course 5 with a grade of at least B+. Other students from Course 5 and, exceptionally, from Course 4, must have the written recommendation of their instructor. PROFESSORS BREUNIG, GEEN, GREENE, and RIFFATERRE, DR. CUTLER, MRS. HAASE-DUBOSC. Section I M W F 10. Section II M W F 11. Section III M W F 1:10.
- §21y. Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part I.** [4]
The equivalent of Course 21 but given in the Spring Term. Credit for Course 21y only on completion of Course 22x. M W F 1:10.

§22x. Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part II. [7]

The equivalent of Course 22 but given in the Autumn Term. Prerequisite: Course 21 or the equivalent. PROFESSOR SHRODER. Tu Th 10:35–11:50.

[23–24. The Culture and Institutions of France. PROFESSOR GAVRONSKY.
Not given in 1968–69.]

25–26. French Historical Prose. [2]

A study of the masterpieces of French historical writing from the Middle Ages to the present. Autumn Term: from Villehardouin to Condorcet. Spring Term: from Mme. de Staël to De Gaulle. Prerequisite: the same as for Course 21–22. PROFESSOR GAVRONSKY. M W F 10.

[§31. The Middle Ages. DR. TERRY. Not given in 1968–69.]

§32x. The Renaissance. [3]

Poetry, drama and prose of the sixteenth century. Study of the origins and spread of the Renaissance in France. PROFESSOR GREENE. M W F 11.

§33. Seventeenth Century (I). [7]

The French classical theater: Corneille, Racine, Molière. PROFESSOR BAILEY. Tu Th 10:35–11:50.

§34. Seventeenth Century (II). [2]

From the baroque to the classical style in poetry and prose. PROFESSOR BREUNIG. M W F 10.

[§35. Eighteenth Century (I). Not given in 1968–69.]

§36. Eighteenth Century (II). [3]

Writings of the *philosophes* including Montesquieu, Voltaire, Diderot and Rousseau. PROFESSOR GEEN. M W F 11.

§37. Nineteenth Century (I). [9]

The poetry and poetic theories of Baudelaire, Mallarmé and Rimbaud. PROFESSOR SHRODER. Tu Th 2:10–3:25.

§38. Nineteenth Century (II). [7]

Fiction from pre-Romanticism through naturalism, including works by Chateaubriand, Hugo, Vigny, Stendhal, Balzac, Flaubert and Zola. PROFESSOR BAILEY. Tu Th 10:35–11:50.

[§39. Twentieth Century (I). Not given in 1968–69.]

§40. Twentieth Century (II). [6]

The novel from Gide through the *nouveau roman*. PROFESSOR SHRODER. Tu Th 9:10–10:25.

[§42. Materials and Techniques of French Poetry. PROFESSOR GREENE.

Not given in 1968–69.]

SEMINARS

Registration in each seminar is limited, and the written permission of the instructor is required.

BARNARD COLLEGE

51. **Dramatic Theory from the Eighteenth Century to the Present.** [0]
PROFESSOR GEEN. M W 1:10.
52. **Courtly Love.** [0]
DR. TERRY. M W 1:10.
53. **Research in Modern Poetry.** [0]
PROFESSOR GREENE. M W 2:10.
54. **Nineteenth-Century Utopias.** [0]
PROFESSOR GAVRONSKY. Tu Th 2:10–3:00.
- 59–60. **Senior Thesis.** [0]
Research into a precise topic of French literature and the preparation of a long essay. Open to seniors with honor grades. The essay satisfies in part the major examination requirement. PROFESSORS BREUNIG and SHRODER. Hours for consultation to be arranged.

GRADUATE COURSES

The following graduate courses are given in English by members of the Barnard French Department. They are open to undergraduates only by written permission of the instructor. French majors may take them in addition to, but not in lieu of, the four literature courses and the two seminars as set forth in the major requirements.

G4603x. French Poetry in the Twentieth Century.

PROFESSOR BREUNIG. W 4:10–6.

G4505x. French Novel of the Nineteenth Century.

PROFESSOR SHRODER. F 10–11:50.

[G6705x. **Theory of the Novel.** PROFESSOR SCHRODER. Not given in 1968–69.]

COLUMBIA COLLEGE COURSES

The following courses at Columbia College are open to Barnard students who have had Course 21–22 or who receive written permission from the Chairman of the Columbia College Department of French. French majors may take them in addition to, but not in lieu of, the four literature courses and the two seminars as set forth in the major requirements.

C3667x–C3668y. French Drama. PROFESSOR GROSS.

C3669y. Greek Myth in Modern French Literature. PROFESSOR SAREIL.

The two-point French literature courses at Columbia College are open to Barnard students but may not be taken for credit.

The following Junior Year in Paris program, under the direction of Columbia College, is open to Barnard Juniors with the written permission of their major adviser and of the chairmen of both the Barnard and Columbia French Departments.

C3991x–C3992y. Supervised Study in France.

C3997x–C3998y. Supervised Research in France.

GEOLOGY AND GEOGRAPHY

PROFESSOR: ¹LEONARD ZOBLER (Chairman; 216 Milbank Hall)

ASSISTANTS: INA B. ALTERMAN, BRIAN S. OVERSBY

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: WALLACE S. BROECKER, CHARLES L. DRAKE, RHODES W. FAIRBRIDGE, RALPH J. HOLMES, WILLIAM A. HANCE, HERMAN F. OTTE

ASSOCIATE PROFESSORS: IAN DALZIEL, ROBERT A. LEWIS

ASSISTANT PROFESSOR: ANDREW L. MARCH

INSTRUCTOR: JOHN E. OLIVER (Adviser for Geography)

Geology and Geography cover the broad spectrum of the earth sciences, the solid, liquid, and gaseous phases of the earth, their properties, interrelations and renewal cycles. Students may acquire a wide perspective or concentrate in one of the traditional fields of specialization as follows: (1) Geology, (2) Geography, (3) Earth Science, and (4) Conservation of Natural Resources.

GEOLOGY

Geology is the study of the history and structure of the earth, the materials composing it, continental movements, properties of the ocean basins, the shore zone between the land and water masses, the separation into land and water masses, the record of evolving life and the chemistry and physics of the earth.

Following the introductory course, majors are required to take courses in mineralogy and petrology, structure, geomorphology, paleontology, and a seminar. Electives, including oceanography, geophysics, regional geology and sedimentology, round out the major. A summer field course is highly desirable. Other courses advised for majors are physics, chemistry, and calculus. The major examination in Geology will consist of the Graduate Record Examination.

GEOGRAPHY

Geography is the study of the earth as the home of man. It examines man-environment systems and reciprocal relations between earth and man. It is concerned with the human ecology of natural resource use and how this has affected the spatial ordering and evolution of human occupance patterns and activities. Geographers must have an appreciation of both the earth sciences and social sciences so that they may use effectively the information made available by Geology and other disciplines. With a scientific understanding of the earth and its resources, the geographer is able to prepare resource surveys and organize regional development plans.

¹ Absent on leave, 1968-69.

BARNARD COLLEGE

Majors are required to take the introductory courses in Geography and Geology. Additional required courses include cartography, climatology, economics, and regional geography. Electives will be selected according to student interest; these are urban studies, soil and water resources, geomorphology, population growth, political geography, developed or underdeveloped world regions. Students planning to continue their studies are advised to have one year of mathematics and statistics. The major examination will consist of a senior seminar and a senior essay.

EARTH SCIENCE

Earth Science includes those disciplines which examine the structure, properties, and interrelations of the solid, liquid, and gaseous phases of the earth. It includes selected fields of study from geology and physical geography. Emphasis is placed on the renewal cycles and interconnections among the phases.

Students are required to take introductory courses in Geology and Physical Geography or Earth Science, after which courses in geomorphology, soils, hydrology, climatology and a senior seminar fulfill the core requirements. Additional electives include oceanography, regional geology, regional geography, soils, hydrology, mineralogy and petrology, economic geology, cartography and ecology. A field course is highly recommended. Further studies at a more advanced level require courses in mathematics, physics, and chemistry. The major examination will consist of a senior seminar and senior research paper.

CONSERVATION OF NATURAL RESOURCES

(Sponsored jointly with the Department of Biology.) Conservation is concerned with man's stewardship of the earth as his home and the proper management of its resources. It thus bridges the earth sciences and social sciences. The particulars of this program will be found on p. 50 under **Interdepartmental Offerings**.

GEOGRAPHY

C1005x-C1006y. Environmental Science.

The physical environment of man viewed as the complex summation and interaction of the natural processes and forms on or close to the earth's surface responsible for the evolution of terrestrial regions. Autumn Term: earth shape, motion and representation, seasons and time, solar and terrestrial radiation, thermal and moisture flows, wind systems, and climate regions. Spring Term: earth's surface relief features, rock weathering and soil formation, surface and ground water, stream patterns and landform evolution, and world biomes. This course may be used to satisfy the science requirement. Permission of the instructor required. Registration limited. MR. OLIVER. Tu Th 12. Lab. M 2:10-5.

[3. **Agricultural Resources and Agrarian Societies.** PROFESSOR ZOBLER.
Not given in 1968-69.]

[4. **Ecology of Urban-Industrial Society.** PROFESSOR ZOBLER.
Not given in 1968-69.]

[W4011x. **Soils and Soil Conservation.** PROFESSOR ZOBLER.
Not given in 1968-69.]

[W4012y. **Hydrology and Resource Management.** PROFESSOR ZOBLER.

Not given in 1968-69.]

C3002y. Principles of Economic Geography.

A systematic analysis of the distribution of resources, industries and population in relation to physical, economic, technological and other factors. Resource-use planning and the principles of economic location and regional development.

PROFESSOR OTTE. M W 2:40-3:55.

W4018y. Cartography.

The use of maps for illustrative and statistical purposes, as point, line, and area symbols, and for geographic analysis. A survey of photogrammetry and remote sensing and of modern map production methods. Experience in cartographic drafting, compilation, design, and evaluation. Use of aerial photographs in mapping and as map supplements. Lab. fee: \$5. PROFESSOR

Lec. F 1:10. Lab. F 2:10-4.

[W3101x. **Economic Geography of the United States.**

PROFESSOR OTTE. Not given in 1968-69.]

[W3102y. **Economic Geography of Canada and the State of Alaska.**

PROFESSOR OTTE. Not given in 1968-69.]

[C3200y. **Economic Geography of Latin America.** PROFESSOR WEBB.

Not given in 1968-69.]

W3700x. East, South, and Southeast Asia.

Introduction to the physical, historical, and economic geography of the areas from the Indian peninsula to Japan. PROFESSOR MARCH. M W 2:40-3:55.

[W3500x. **African Problems and Potentialities.** PROFESSOR HANCE.

Not given in 1968-69.]

W4025y. General Climatology.

Introduction to physical climatology, classification and description of climates, and problems of climatic change. Laboratory work: analysis of climatic data.

MR. OLIVER. Tu 4:10-6.

W3902y. Seminar.

[0]

Readings, discussions, and reports on various topics from the research literature. Preparation of senior research paper. Required of senior majors. PROFESSOR LEWIS. Hours to be arranged.

[59, 60. **Seminar in Geography and Natural Resources.** PROFESSOR ZOBLER.

Not given in 1968-69.]

COLUMBIA COURSES

The following graduate course is offered to qualified students with the permission of the Barnard chairman.

G4401x. Economic Geography of the USSR.

Analysis of the Soviet Union in terms of its resources and raw materials, and the distribution of its population, extractive industries, manufacturing, and urbanism. PROFESSOR LEWIS. W 11-12:50.

GEOLOGY

1. Physical Geology.**[2]**

The composition and structure of the earth, the internal and external forces acting upon it, and the surface features resulting. Laboratory includes study of common rocks and minerals and of contour maps as means of depicting topography. Course 1 makes a good unit for students taking other sciences and wishing to gain some knowledge of the content of geology. With Course 2 it satisfies the laboratory science requirement. Students who have had Geography 2 should not take Geology 1. PROFESSOR, MRS. ALTERMAN, and MR. OVERSBY. Lec. M W F 10; W 4:10, voluntary review session. Lab. (2 hours) M 3:10-5; Tu 9-10:50, 3:35-5:25; W 11-12:50, 2:10-4; Th 8:35-10:25, 2:10-4.

2. Historical Geology.**[2]**

The history of the earth and of the life upon it from the beginning to modern times. The laboratory and assigned work include study of invertebrate fossils and of geologic maps and structures, museum trips, short field trips, and a required one-day field trip. Prerequisite: Course 1. PROFESSOR, MRS. ALTERMAN, and MR. OVERSBY. Lec. M W F 10; W 4:10, voluntary review session. Lab. (2 hours) M 3:10-5; Tu 9-10:50, 3:35-5:25; W 11-12:50, 2:10-4; Th 8:35-10:25, 2:10-4.

W3045x. Elements of Structural Geology.

Training in the recognition and interpretation of geologic structures both in the field and on geological and topographical maps. Prerequisite: Course 1 and W3113. PROFESSOR DALZIEL. M W 10. Lab. W 1:10-4.

W3227x. Principles of Geomorphology.

Lectures, map study, and readings on geomorphic principles. The origin of surface features of the earth as controlled by the interaction between geologic structures and erosional processes. Prerequisite: one year of geology. PROFESSOR FAIRBRIDGE. M W F 1:10. Lab. W 3:10-5.

W3113y. Elements of Mineralogy and Crystallography—Silicates and Rock-Forming Minerals.

Crystallography, including principles of symmetry, internal structure of crystals, coordination, bonding, and external crystal form. Physical properties, occurrence, mode of origin and the geologic significance of the more important silicate and rock-forming minerals. Application of physical properties and chemical tests in the recognition of minerals. Prerequisite: Course 1, college physics, elementary chemistry or permission of instructor. PROFESSOR HOLMES. Tu Th 11. Lab. Tu 1:10-4.

W4112x. Mineralogy of Ore Minerals.

Physical properties, occurrence, mode of origin and the economic and geologic significance of the ore minerals and the nonsilicates of economic and geologic importance. Application of physical properties and chemical tests in recognition of minerals. Prerequisite: Course 1, W3113 or permission of instructor. PROFESSOR HOLMES. Tu Th 11. Lab. Tu 1:10-4.

W4120y. Analytical Mineralogic Techniques.

Analytical methods for mineral identification and study, including the polarizing petrographic microscope, the reflecting polarizing microscope, x-ray diffraction (both powder and single crystal methods), x-ray fluorescence, and differential thermal analysis. Prerequisite: Course W3113 and W4112 or equivalent. PROFESSOR HOLMES. Tu Th 10. Lab. Th 1:10-3.

W4661x. Introduction to Paleontology.

A systematic survey of the morphology, taxonomy, and geologic history of groups of organisms commonly found as fossils. Prerequisite: Courses 1 and 2. PROFESSOR Lec. M W 11. Lab. F 2:10-4.

W4226y. Experimental Marine Sedimentology.

Training in theory and techniques of modern marine sedimentology, especially the chemical processes associated with deposition and diagenesis. Prerequisite: Course W3113, W4112, W4661, and chemistry. Expenses: \$10. DR. SANDERS. Lec. W F 2:10. Lab. W 3:10-5.

W4053x. Geology of the New York Region.

Approximately six days of field study of selected areas within two hundred miles of New York City. Some overnight trips during weekends. An illustrated field notebook will be maintained by each student. Prerequisite: one year of geology. Expenses: \$60 to \$70. PROFESSOR FAIRBRIDGE and assistants. Dates to be arranged.

W4076y. Geologic Mapping.

The technique of geological mapping in an area with moderately complicated structure. Training in observation and reasoning from field data, and methods of recording results on topographical maps and air photographs, in notebook entries, cross sections, and diagrams. In 1969 the course will be conducted near Stroudsburg, Pa. Prerequisite: Course W3045 or equivalent, and the instructor's permission. Estimated expense: about \$90. PROFESSOR DALZIEL.

W4701x. Introduction to Petrology.

The classification and genesis of igneous, sedimentary, and metamorphic rocks. The major rock types will be examined in hand specimens and under the microscope. Prerequisite: elementary knowledge of physics and chemistry. PROFESSOR GARLICK. W F 12. Lab. two hours to be arranged.

60. Seminar in Geology.

[0]

A seminar course with discussions, problems, and readings on various problems in geology. Prerequisite: a year of geology. Required of senior majors. PROFESSOR W 3:10-5.

COLUMBIA COURSES

The following graduate courses are open to qualified students with the permission of the Barnard chairman:

W4030x. Pleistocene Geology.

W4941x. Introduction to Geophysics.

G 4883x. Principles of Geochemistry.

W4501x. Introductory Economic Geology.

TK4802 (Teachers College). Coastal Oceanography.

GERMAN

ASSOCIATE PROFESSOR: BRIDGITTE L. BRADLEY (Chairman; 127 Milbank Hall)

ASSISTANT PROFESSOR: ¹GERTRUD SAKRAWA

INSTRUCTORS: PAUL MARAMALDI, PETER D. BROWN, MARVIN SCHULMAN

The courses of the German Department have been designed to teach the language, to present the literatures of the German-speaking countries, and to offer a major's program. For students who have an interest in the field but do not know the language, the department offers a series of courses in German literature in English translation.

The language program comprises training in comprehension, translation, writing, and speaking. The reading material is drawn from original German sources and selected for stylistic excellence and significant content. With the exception of courses on the elementary level, all the offerings are one-semester units and as such open to all qualified students.

A student majoring in German will aim at fluency in the written and spoken language and at a fundamental understanding of German literature and civilization. She should take one advanced language course and, in consultation with her major adviser, she will select eight literature courses, including one seminar. Courses in allied subjects such as other literatures, philosophy, religion, or history are recommended.

Students majoring in other fields in which a reading knowledge of German is suggested should plan to take Course 11.

The major examination consists of two three-hour written sections and an oral section of at least one hour. The senior essay will replace one of the written sections.

FOREIGN LANGUAGE REQUIREMENT FOR THE DEGREE: All new students who intend to satisfy the foreign language requirement in German must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken German, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing Courses 11 and 10; or Courses 5, 6 or Course 5 alone with a minimum grade of B+.

LANGUAGE COURSES

German is the language of the classroom, as far as possible, in all courses beyond Course 1 with the exception of Courses 11 and 55, 56. All students in Courses 1-2; 3, 4; 5, 6; and 7 will be expected to use the facilities of the language laboratory.

1-2. Elementary Full-Year Course. [15]
Elements of grammar, easy reading, written and oral practice. PROFESSOR
BRADLEY, MR. MARAMALDI, and Section I M W F 9. Section
II M W F 11. Section III M W F 12:10. Required oral sections may be
chosen as follows: Section I Tu Th 9. Section II Tu Th 11. Section
III Tu Th 2:10.

¹ Absent on leave, 1968-69.

- 1y. Elementary Full-Year Course. Part I.** [4]
Same as Course 1, but given in the spring. MR. BROWN, M W F 1:10, Tu Th 11.
- 2x. Elementary Full-Year Course. Part. II.** [4]
Same as Course 2, but given in the fall. MR. SCHULMAN. M W F 1:10, Tu Th 11.
- 3y. Intermediate Course.** [4]
Same as Course 3, but given in the spring. MR. SCHULMAN. M W F 1:10.
- 3, 4. Intermediate Course.** [15]
Reading and discussion of works by representative modern authors. Compositions in German. Grammar review. Prerequisite: Course 1-2 or a satisfactory grade on the placement examinations. MR. MARAMALDI and MR. SCHULMAN. Section I M W F 11. Section II M W F 12:10.
- 7. Advanced Oral Practice.** [0]
Pronunciation and intonation based on selected readings such as radio plays and lyric poetry. Improvised conversations. Prepared brief reports. MR. BROWN. M W F 1:10.
- 10. Advanced Composition.** [0]
Intensive written practice. Study of style and syntax. Required of all majors. Open to others with the permission of the department. MR. BROWN. M W F 10.
- 11. Expository Prose. Issues of General Interest in the German Press.** [12]
Discussions and translations based on readings of leading newspapers and magazines. Classes conducted in English. Prerequisite: Course 4 or permission of the department. This course in combination with Course 10 will fulfill the language requirement. MR. MARAMALDI. M W F 12:10.

LITERATURE COURSES

For nonmajors, courses marked thus § will count towards the general college requirement. All courses are conducted in German except Courses 55 and 56.

- 5, 6. Introduction to the Study of German Literature.** [15]
Intensive reading and discussions of significant works from the eighteenth to the twentieth century. Practice in literary analysis in German, both orally and in writing. Prerequisite: Course 4 or a satisfactory grade on the placement examination. MR. BROWN and MR. SCHULMAN. Section I M W F 9. Section II M W F 11.
- 5y. Introduction to the Study of German Literature. Part I.** [12]
The equivalent of Course 5 but given in the Spring Term. Prerequisite: Course 4 or permission of the department. M W F 12:10.
- [§15. Goethe: The Early Works of the Poet. Not given in 1968-69.]
- [§16. German Romanticism. PROFESSOR SAKRAWA. Not given in 1968-69.]
- [§25. German Drama in the Nineteenth Century. Not given in 1968-69.]
- [§26. Trends in the Modern German Theater. Not given in 1968-69.]

BARNARD COLLEGE

- §27. **The German Novel from Goethe to Thomas Mann.** [9]
Critical analysis of representative works. Prerequisite: Course 5, 6 or permission of the department. MR. BROWN. Tu Th 2:10–3:25.
- §28. **Modern German Prose Fiction.** [9]
Study of the trends in narrative writing based on a selection of works by authors such as Musil, Kafka, Böll, Grass. Prerequisite: Course 5, 6 or permission of the department. PROFESSOR BRADLEY. M W F 1:10.
- [§32. **German Lyric Poetry.** PROFESSOR SAKRAWA.
Not given in 1968–69.]
- §36. **Goethe's Faust.** [7]
Intensive study of Parts I and II in relation to the poet's life and time with a comparative survey of the history of the Faust motif in earlier centuries. Prerequisite: Course 5, 6 or the permission of the department.
Tu Th 9:10–10:25.
- §45. **German Literature from the Earliest Times through the Middle Ages.** [5]
Study of *Parzival*, *Tristan*, *Nibelungenlied* and other representative works in the context of social and cultural conditions. Prerequisite: Course 5, 6 or permission of the department. PROFESSOR BRADLEY. M W F 2:10.
- §46. **German Literature in the Seventeenth and Eighteenth Centuries.** [5]
Aspects of the period of the baroque, the Age of Enlightenment and the Storm and Stress movement studied on the basis of readings which include lyric poetry, novels, and plays. Special emphasis on Lessing. Prerequisite: Course 5, 6 or permission of the department. MR. MARAMALDI. M W F 2:10.
61. **Max Frisch.** [0]
Seminar required of seniors majoring in German. Open to other qualified students by permission of the department. A study of Max Frisch's plays and novels. PROFESSOR BRADLEY. Tu Th 10:35–11:50.
62. **Senior Essay.** [0]
Senior essay, based on the work of Course 61. Regular consultations with the instructor at hours to be arranged.
- [55y. **German Literature in Translation.** PROFESSOR BRADLEY.
Not given in 1968–69.]
56. **Modern German Literature in Translation.** [9]
Narrative prose and plays by authors who have provoked general interest during the past fifty years. Writers to be concentrated on: Hesse, Thomas Mann, Kafka, Brecht, Peter Weiss, Grass. PROFESSOR BRADLEY. Tu Th 2:10–3:25.

COLUMBIA COLLEGE COURSES

Some upper level courses can be found at Columbia during the years when they are not offered at Barnard.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified majors with the consent of the department and the major adviser. A description of these courses will be found in the Announcement of the Graduate Faculties.

GOVERNMENT

PROFESSOR: ¹DEMETRIOS CARALEY (Chairman)

ASSOCIATE PROFESSORS: JAMES BARROS, PETER H. JUVILER (Acting Chairman; 401 Lehman)

ASSISTANT PROFESSORS: AUDREY CHAPMAN, JOHN T. ELLIFF, CATHERINE KELLEHER

LECTURER: ANNETTE B. FOX

INSTRUCTOR: BRUCE FELD

OTHER OFFICER OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

ASSOCIATE PROFESSOR: JOSEPH ROTHSCHILD

The purpose of the study of government is to develop understanding of the basic political institutions and processes in human society. The major is designed to equip the student to play an effective role as citizen in a democratic political order, to participate more actively in political life as civil servant, public or party official, lawyer, or political commentator, or to undertake graduate training in political science in preparation for a career in college teaching.

A student majoring in government is required to take a minimum of nine semester-courses in the department, including Course 1, 2 and 45 or 46. As a senior, in order to explore more adequately the techniques of scholarly investigation and to have the opportunity for independent specialized work, the student must take one section of Course 61, 62 and write a senior essay.

The department's requirements are flexibly drawn so as to permit a major in consultation with her adviser to plan an overall program that, while providing some background in various areas of government and politics, can place special emphasis on such particular interests as the American political system, foreign political systems, international relations, or political thought.

Other social sciences: In view of the essential unity of the social sciences, students majoring in government are urged to take at least three courses from among the following departments as selected in conference with the adviser: anthropology, economics, history, sociology.

BASIC COURSES

Courses listed under this heading may be taken without previous study of government.

1, 2. Contemporary Political Systems.

[3]

Analysis of traditions, structures, processes, and problems of contemporary political systems. Autumn Term: The American system of politics. Spring Term: Political systems of selected foreign countries. Course may be entered in either semester. Autumn Term: PROFESSOR ELLIFF and OTHER MEMBERS OF THE DEPARTMENT. Spring Term: PROFESSOR JUVILER and OTHER MEMBERS OF THE DEPARTMENT. Lec. M W 11. Conference hours: M 3:10; T 11, 2:10; W 9, 1:10; F 10, 11. Sign-up sheets for conference hours are posted outside 415 Lehman.

¹ Absent on leave, 1968-69.

BARNARD COLLEGE

4. Freshman Seminar in Government.

Intensive study of a topic to be selected by the instructor. The aim of the course is to acquaint students with the methods and sources of political science and to provide experience in discussion and writing. Topic for spring 1969 to be announced in December. W 2:10-4.

7. Modern Political Movements.

[7]

Recent changes in modern politics, such as the weakening of liberal democracy, the emergence of communism as a major force, the rise of fascism and nazism, and the growth of nationalism. PROFESSOR BARROS. Tu Th 10:35-11:50.

[9. The American Presidency. Not given in 1968-69.]

V3313y. American Urban Politics.

[3]

Comparative analysis of large-city government and politics. Emphasis on influence of party leaders, local officials, social and economic notables, interest groups, the press, the general public, and the federal and state governments; accomplishments and shortcomings of urban governments. M W 2:10-3:25.

11. International Politics.

[5]

An exploration of the basic setting and dynamics of global politics, with emphasis on contemporary problems and processes. Open to freshman only with permission of the instructor. PROFESSOR KELLEHER. M W F 2:10.

12. International Organization.

[5]

An examination of the roles of diplomacy, law and international organization as modes of accommodation and conflict-resolution with particular attention to the League of Nations and the United Nations. PROFESSOR BARROS. M W F 2:10.

13, 14. Political Theory.

[5]

Analysis of major political writings from Plato to the present. Emphasis is on a comparison of basic ideas and concepts. PROFESSOR CHAPMAN and M W F 2:10.

ADVANCED COURSES

17. Introduction to International Law.

[9]

Such problems as recognition of states, legal status of dependent territories, control of war and new weapons, changing concepts of neutrality, and other selected issues. Prerequisite: Course 11 or permission of the instructor. PROFESSOR BARROS. Tu 2:10-4. Third hour to be arranged.

18. The Making of American Foreign and Military Policy.

[8]

Analysis of the formulation and implementation of American foreign and military policies, with emphasis on the period since World War II. Prerequisite: Course 1, 11, or permission of the instructor. PROFESSOR KELLEHER. Tu Th 10:35-11:50.

19. Soviet Politics.

[6]

Analysis is made of Soviet politics before and after Stalin; ideology; the structure of the Party and the government; instruments for mobilizing mass support; the impact of politics on the economy, arts, and the round of daily life; the limits of totalitarian control. Prerequisite: Government 2 or History 28 or permission of the instructor. PROFESSOR JUVILER. Tu Th 9:10-10:25.

[20. **Colloquium on Communism and Revolutionary Change.**

PROFESSOR JUVILER. Not given in 1968-69.]

[21. **Colloquium on Soviet Foreign Policy.**

PROFESSOR JUVILER.

Not given in 1968-69.]

C3514y. Communist Politics in Eastern Europe.

The development of Eastern European political institutions in the context of ideology, economics, and nationalism: the theory and practice of Stalinist totalitarianism in comparison with German National Socialism; the changing patterns of Communist practice since Stalin's death, with particular reference to Yugoslavia, Hungary, and Poland; the political implications of contemporary controversies in the Communist camp. Prerequisite: Course 2. PROFESSOR ROTH-SCHILD. M W 2:10-3:25.

23. African Political Systems.

[2]

Comparative analysis of selected African political systems, with emphasis on the problems of development and modernization. Prerequisite: Course 1, 2 or permission of the instructor. PROFESSOR CHAPMAN. M W F 10.

24 Asian Political Systems.

[2]

Comparative analysis of Asian political systems, with particular attention to China and India. Prerequisite: Course 1, 2, or permission of the instructor. PROFESSOR CHAPMAN. M W F 10.

25. The Judicial Process.

[6]

Analysis of the process of judicial decision-making and the role of courts and judges in the American political system, with special reference to the Supreme Court. For students of American government and prelaw candidates. Prerequisite: Course 1 or permission of the instructor. PROFESSOR ELLIFF. Tu Th 9:10-10:25.

26. Problems in Civil Rights and Liberties.

[6]

Analysis of the political and legal context for current issues in freedom of speech and religion, racial discrimination, the right to privacy, and criminal law enforcement. For students of American government and prelaw candidates. Prerequisite: Course 25 or permission of the instructor. PROFESSOR ELLIFF. Tu Th 9:10-10:25.

27y. Colloquium on Party Politics and Issues.

[5]

The bases of individual political behavior; the origins, structure, and functions of the American party system; and the content of recent party politics. Prerequisite: Course 1 and permission of the instructor. W 2:10-4.

28x. Colloquium on Congressional Politics.

[5]

The interrelations of structure, process and policy output in the American Congress, including the legislative role of the President. First-hand examination of hearings, reports, debates and voting patterns, and preparation during reading period of case studies on individual bills. Prerequisite: Course 1 and permission of the instructor. MR. FELD. W 2:10-4.

[30. **The American Democratic System.**

Not given in 1968-69.]

BARNARD COLLEGE

COURSES FOR MAJORS ONLY

Admission to particular sections of the junior colloquium or senior seminar is limited. All majors must sign up on sheets posted outside 415 Lehman for the section of their choice during spring registration.

45, 46. Junior Colloquium on Concepts and Methods. [0]

Intensive analysis of central concepts and methods of political science.

Autumn Term: Th 2:10-4.

Spring Term: PROFESSORS ELLIFF and KELLEHER and MR. FELD. Section I M 2:10-4. Section II Tu 2:10-4. Section III Th 2:10-4.

61-62. Senior Research Seminar. [0]

Discussions and conferences on the researching and writing of the senior essay.

Section I	MR. FELD.	W 4:10-6.
Section II	PROFESSOR ELLIFF.	Tu 4:10-6.
Section III	PROFESSOR JUVILER.	Th 4:10-6.
Section IV	PROFESSOR CHAPMAN.	W 4:10-6.
Section V	PROFESSOR BARROS.	Th 4:10-6.
Section VI	DR. FOX.	Tu 4:10-6.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Announcement of the Graduate Faculties. Attention is drawn to the following:

G4241x. The Political Setting of Public Administration. PROFESSOR SAYRE.
W 4:10-6.

G4461x, G4462y. Latin American Political Institutions and Behavior.
PROFESSORS CHALMERS and SCHNEIDER. W 4:10-6.

G4472y. Political Institutions of Japan. PROFESSOR STESLICHE. Tu 10-11:50.

GREEK AND LATIN

PROFESSOR: ¹HELEN H. BACON (Chairman)

ASSISTANT PROFESSOR: LYDIA H. LENAGHAN (Acting Chairman; 317 Milbank Hall)

INSTRUCTORS: JOHN C. ALEXANDER (Part-time), CAROLA GREENGARD, STEPHEN W. SCHNEIDERMAN

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSOR: HOWARD N. PORTER

ASSOCIATE PROFESSORS: COLEMAN H. BENEDICT, ²WILLIAM M. CALDER III, HENRY S. COMMAGER, JR., JAMES A. COULTER, LEONARDO TARAN

ASSISTANT PROFESSORS: ROBERT W. CARRUBBA, JOHN VAIO, ALLEN WARD

INSTRUCTORS: PETER POUNCEY, SETH L. SCHEIN

The general objectives toward which the work of the department is directed are a knowledge of the language, literature, and civilization of the ancient Greeks and Romans. The emphasis varies in accordance with the student's interests.

A major in Greek: Eight courses in Greek above the elementary course. These must include Greek V3319x-V3320y (counts as one course), and Greek V3371x-V3372y.

A major in Latin: Eight courses in Latin above the elementary course. These must include Latin V3319x-V3320y (counts as one course), and Latin V3371x-V3372y.

A major in Greek and Latin combined can be arranged for qualified students on consultation with the major adviser.

Other fields: Courses in ancient art, archaeology, history, philosophy, other languages, and linguistics are strongly recommended.

The major examination at the end of the senior year consists of one three-hour examination which will test the student's understanding of style and language, and her ability to read aloud both prose and verse.

Barnard College participates in the program of the Intercollegiate Center for Classical Studies in Rome. Greek and Latin majors who have completed at least four semesters of Latin above the elementary course, and at least one semester of elementary Greek, are eligible to apply for admission to the program of the Rome Center for one or two semesters, preferably in the junior year. Courses taken at the Rome Center can be counted toward the major and, in some cases, toward the fulfillment of the general requirements.

Barnard College is a Supporting Institution of the American School of Classical Studies at Athens and the American Academy in Rome, and certain privileges of those schools are open, without fee, to graduates of the College.

¹ Absent on leave, 1968-69.

² Absent on leave, Autumn Term.

BARNARD COLLEGE

FOREIGN LANGUAGE REQUIREMENT FOR THE DEGREE: Students may fulfill the foreign language requirement in Greek or Latin either by completing Greek 11, 12 or Latin V3011x, V3012y, or by completing any one of the above courses with a minimum grade of B+, or by passing an exemption examination with a sufficiently high grade. This examination tests the student's knowledge of grammar and her ability to translate written Greek or Latin.

CLASSICS IN TRANSLATION

[Classical Literature 35. The Ancient Novel. PROFESSOR BACON.
Not given in 1968-69.]

Classical Literature 32. Classical Myth. [5]
Classical myths in such authors as Hesiod and Ovid. MR. SCHNEIDERMAN.
M W F 2:10.

Classical Literature C3123x. Greek Drama and Its Influences.

The major Greek tragedies and comedies, and their influence on Roman and later European drama. Some attention is paid to the problems of the origin of Greek drama, the production of plays, and the dramatic criticism of Aristotle.
MRS. GREENGARD. M W F 11.

Classical Literature C3124y. Roman Literature.

A study, through translations, of the major literary works in the fields of epic, history, oratory, lyric and elegy, philosophy, and satire. Some attention is given to the historical development of Roman literature. A term paper is required.
MR. POUNCEY. M W F 10.

GREEK LANGUAGE AND LITERATURE

For nonmajors, courses marked thus § will count towards the general college requirement.

1-2. Elementary Full-Year Course. [5]
Grammar, composition, and reading. Course 1 is prerequisite to Course 2.
MRS. GREENGARD. M 2:10-4, W F 2.

§11. Prose and Poetry. [2]
Selections from Lysias, Herodotus, and elegy. Prerequisite: Course 1-2, or the equivalent. MR. SCHNEIDERMAN. M W F 10.

§12. Selections from Homer. [2]
Prerequisite: Course 11 or permission of the instructor. MRS. GREENGARD.
M W F 10.

§V3305x. Tragedy.
A play of Aeschylus and a play of Sophocles will be read; studies in the origin and development of Greek tragedy. Prerequisite: Course 12, or the equivalent. Given every other year, in alternation with Course V3307x. PROFESSOR PORTER. M W F 1:10.

§V3306y. Historians.
Selections from Thucydides; studies in Greek historical writing. Prerequisite: Course 12, or the equivalent. Given every other year in alternation with Course V3308y. PROFESSOR TARÁN. M W F 1:10.

[§V3307x. **Comedy.** PROFESSOR BENEDICT. Not given in 1968–69.]

[§V3308y. **Philosophy.** PROFESSOR BACON. Not given in 1968–69.]

§V3309x. Selections from Greek Literature, I.

Hesiod and the Homeric Hymns; a study of early religious and didactic poetry. Prerequisite: Course 12, or the equivalent. PROFESSOR COULTER. Tu Th 5:10–6:25.

§V3310y. Selections from Greek Literature, II.

Oratory; selected speeches of the Attic orators, including Demosthenes. Prerequisite: Course 12, or the equivalent. PROFESSOR CALDER. M W 5:10–6:25.

[V1109x–V1110y. **Prose Composition, I.** MR. POUNCEY. Not given in 1968–69.]

¹V3319x–V3320y. Prose Composition, II.

The writing of sentences and connected passages in Greek. Prerequisite: at least four terms, or the equivalent, of Greek. PROFESSOR VAIO. Th 1:10–3.

V3371x–V3372y. Major Seminar.

Required of all majors in the senior year. Autumn Term: Work on a special author to be determined by the interests of the student. A term paper is required. Spring Term: Guided readings in Greek literature. Review and coordination of the work of the major. PROFESSOR COULTER and MEMBERS OF THE BARNARD AND COLUMBIA DEPARTMENTS. W 2:10–4.

LATIN LANGUAGE AND LITERATURE

For nonmajors, courses marked thus § will count toward the general college requirement.

1–2. Elementary Full-Year Course. [4]

Grammar, composition, and reading. Course 1 is prerequisite to Course 2. PROFESSOR LENAGHAN. M 12:20–2, W F 1:10.

3. Cicero: Selections. [3]

Prerequisite: Course 1–2 or the equivalent. MR. SCHNEIDERMAN. M W F 11.

4. Vergil: Selections from the Aeneid. [3]

Prerequisite: Course 3 or the equivalent. MRS. GREENGARD. M W F 11.

§V3011x. Myth and Pastoral.

Selections from Livy; Vergil's *Eclogues*. Prerequisite: Course 4 or the equivalent. PROFESSOR BENEDICT, MRS. GREENGARD, MR. POUNCEY. Section I M W F 10 (Columbia students). Section II M W F 1:10 (Barnard students). Section III Tu Th 5:10–6:25 (Columbia students).

Note: Sections I and III are open to Barnard College students with permission of the department chairman.

¹ This is a two-point Columbia course. A Barnard student must take both terms to receive one course credit.

§V3012y. Lyric Poetry.

Selections from Catullus and Horace. Prerequisite: Course V3011x or the equivalent. PROFESSOR PORTER, MR. SCHNEIDERMAN, PROFESSOR COMMAGER. Section I M W F 10 (Columbia students). Section II M W F 1:10 (Barnard students). Section III Tu Th 5:10–6:25 (Columbia students).

Note: Sections I and III are open to Barnard College students with permission of the department chairman.

Latin 33. Mediaeval Literature.

[3]

Representative writers and genres in relation to their classical models. Prerequisite: Course V3012y or the equivalent. PROFESSOR LENAGHAN. M W F 11.

§V3305x. Historians.

Selections from Tacitus; studies in Latin historiography. Prerequisite: Course V3012y, or the equivalent. Given every other year in alternation with Course V3307x. PROFESSOR BENEDICT. M W F 10.

§V3306y. Satire.

Satires of Horace and Juvenal; studies in the history of satire. Prerequisite: Course V3012y, or the equivalent. Given every other year in alternation with Course V3308y. PROFESSOR COMMAGER. M W F 12.

[§V3307x. Elegiac Poetry. PROFESSOR COMMAGER. Not given in 1968–69.]

[§V3308y. Philosophy. PROFESSOR COMMAGER. Not given in 1968–69.]

§V3309x. Selections from Latin Literature, I.

Comedy: selected plays of Plautus and Terence; the origin and development of Roman comedy. Prerequisite: Course V3012y, or the equivalent. PROFESSOR CARRUBBA. M W 5:10–6:25.

§V3310y. Selections from Latin Literature, II.

Cicero, *de natura deorum*: the adaption of Hellenistic philosophy by the Romans; the confrontation of Greek philosophy and Roman religion. Prerequisite: Course V3012y, or the equivalent. PROFESSOR LENAGHAN. M W F 11.

¹V1109x–V1110y. Prose Composition, I.

A review of Latin grammar and syntax. Prerequisite: Course 1–2, or the equivalent. MR. SCHNEIDERMAN. W 5:10–7.

¹V3319x–V3320y. Prose Composition, II.

The writing of sentences and connected passages in Latin. Prerequisite: at least four terms, or the equivalent, of Latin. MR. SCHEIN. Th 1:10–3.

V3371x–V3372y. Major Seminar.

Required of all majors in the senior year. Autumn Term: Work on a special author to be determined by the interests of the student. A term paper is required. Spring Term: Guided readings in Latin literature. Review and coordination of the work of the major. PROFESSOR LENAGHAN AND MEMBERS OF THE BARNARD AND COLUMBIA DEPARTMENTS. W 2:10–4.

¹ This is a two-point Columbia course. A Barnard student must take both terms to receive one course credit.

GRADUATE COURSES

Graduate courses given at Columbia University are open with the consent of the department and the major adviser to qualified majors. Their description may be found in the Announcement of the Graduate Faculties.

MODERN GREEK LANGUAGE AND LITERATURE

1-2. Elementary Full-Year Course.**[13]**

Introduction to written and spoken *demotike*. Intensive study of grammar with illustrative readings of representative texts. Conversation and written exercises in *demotike*. Introduction to the elements of *katharevousa*. MR. ALEXANDER. M Th 6:10-8.

3, 4. Modern Greek Literature.**[13]**

Rapid review of grammar. Survey readings in *demotike* and *katharevousa* with attention also to historical texts. Conversation and written exercises. Prerequisite: Course 1-2, or the equivalent, or permission of the instructor. MR. ALEXANDER. M W 4:10-5:35.

HISTORY

PROFESSORS: ¹BASIL RAUCH, RENÉ ALBRECHT-CARRIÉ (Chairman; 413 Lehman), VIRGINIA D. HARRINGTON, ²CHILTON WILLIAMSON

ASSOCIATE PROFESSORS: ANNETTE K. BAXTER, PATRICIA ALBJERG GRAHAM, ³GEORGE WOODBRIDGE

ASSISTANT PROFESSORS: STEPHEN KOSS, SUZANNE F. WEMPLE

LECTURER: PATRICIA H. LABALME

INSTRUCTOR: IN-HO RYU

OFFICER OF COLUMBIA UNIVERSITY OFFERING COURSES LISTED IN THIS CATALOGUE:
INSTRUCTOR: WILLIAM V. HARRIS

History, as knowledge of the past, touches all aspects of human activity. Historians' accounts of the past form a branch of literature in which factual statements can be verified in primary sources. History should be studied to improve understanding of man in society, his failures and his achievements, and to acquire a sense of the interrelations of continuity and change in the present.

A major in history: In order to acquire broad understanding of historical development and acquaintance with the techniques of historical study and writing, a student majoring in history must take the following:

- (a) Two courses in ancient or medieval history in any combination.
- (b) Two courses in the modern field in which she does not specialize: European or American history.
- (c) Four courses in the field in which she specializes: European or American history.
- (d) Junior readings (one course) in the field of specialization.
- (e) The senior seminar (two courses) in the field of specialization. In the senior seminar the student is required to write a senior essay.

While history majors normally specialize in European or American history, they may, upon approval of the chairman, specialize in such fields of particular interest as classical civilization, Jewish history, cultural history, Oriental studies, African studies, or urban history.

Joint majors: A student who wishes to combine studies in history with studies in some other discipline should draw up a proposal and present it to the chairmen of the departments concerned for advice and approval.

All history courses at Barnard require readings as secondary historical works and in primary sources, and written exercises based on the readings.

The survey courses are lecture courses dealing with long periods of history. The colloquia are discussion courses in which limited periods or aspects of history are studied. Admission to a colloquium is by permission of the instructor. The junior readings and senior seminars are normally restricted to history majors. All other courses are mainly lecture courses dealing with particular periods, countries, or topics.

¹ On leave ²/₃ of time, 1968-69.

² Absent on leave, Spring Term, 1968-69.

³ Absent on leave, 1968-69.

All Barnard history courses (except junior readings and senior seminars) are open to all Barnard students, including freshmen. Barnard students may without obtaining any signature take Columbia College courses in the 3000 or lower levels, except courses requiring special permission for entry.

C1105x. The Greek World.

From the collapse of Mycenaean civilization and the Dorian invasions, through the development of classical Greece, to the death of Alexander the Great.
MR. HARRIS. M W F 9.

C1106y. The Hellenistic and Roman Worlds.

The Hellenistic world; the rise of Rome and its triumph; the character of the Roman empire; the cause of its dissolution; the emergence from it of enduring cultural patterns. MR. HARRIS. M W F 9.

3. The Early Middle Ages: A Survey from 300 to 1050. [7]

The fusion of Graeco-Roman, Judeo-Christian and Germanic traditions, and the emergence of Europe as a cultural unit. PROFESSOR WEMPLE. Tu Th 10:35–11:50.

4. The High Middle Ages: A Survey from 1050 to 1450. [7]

The social environment, political institutions, church history, thought and science from the Gregorian Revolution to the Renaissance. PROFESSOR WEMPLE. Tu Th 10:35–11:50.

5. The Roots of the Modern World: Western Europe, 1250–1494. [0]

Colloquium.

The disintegration of medieval unity; national and dynastic states; papal absolutism and conciliarism; urban democracy and dictatorship; capitalism and social unrest; economic depressions and explorations; humanism and mysticism. PROFESSOR WEMPLE. Th 3:35–5:25.

11. Main Currents of the Modern European World: Renaissance to Revolution. [7]

The forces—cultural, social, political, economic—which established modern Europe and brought it into contact with the rest of the world. PROFESSOR KOSS. Tu Th 10:35–11:50.

12. Main Currents of the Modern European World: Waterloo to Today. [7]

Nineteenth-century industrial revolutions, romanticism, liberalism, nationalism, socialism, and imperialism and twentieth-century wars, revolutions, dictatorships, and aspirations. PROFESSOR KOSS. Tu Th 10:35–11:50.

13. The Renaissance in Europe in the Fifteenth and Sixteenth Centuries. [9]

Humanism as represented by such educators, princes, writers, and artists as Guarino da Verona, Pius II, Lorenzo de' Medici, Leon Battista Alberti, Machiavelli, Erasmus, and Thomas More. DR. LABALME. Tu Th 2:10–3:25.

14. The Reformation in Europe in the Sixteenth Century. [9]

The great reformers and religious changes: Luther, Calvin, Zwingli, the Anabaptists, Tudor reforms, and the Catholic Reformation. DR. LABALME. Tu Th 2:10–3:25.

[17. An Age of Conflict: Europe from 1815 to 1870.

Autumn 1970. PROFESSOR WOODBRIDGE. Not given in 1968–69.]

[18. The Struggle for Mastery: Europe from 1870 to 1914.

Spring 1971. PROFESSOR WOODBRIDGE. Not given in 1968–69.]

- 17x. Europe from Vienna to Sarajevo: 1815–1914.** [6]
The significant cultural, social, political and economic developments in Europe from the end of the Napoleonic Wars to the beginning of the First World War. MR. PORT. Tu Th 9:10–10:25.
- 19. The Problems of Europe: 1914–1939.** [6]
The First World War and the ensuing settlements; the apparent liquidation of the war; the league; new political systems; and the collapse of the thirties. PROFESSOR CARRIÉ. Tu Th 9:10–10:25.
- 20. The Second World War and the Recovery of Europe: 1939 to Today.** [6]
The Second World War and its legacy; the United Nations; rival groups and the Cold War; the new place of Europe in the world. PROFESSOR CARRIÉ. Tu Th 9:10–10:25.
- 21. England under the Tudors and Stuarts: 1485 to 1714.** [9]
England's national monarchy from its establishment through its evolution by parliamentary agitation and civil war. Special attention to the effects of religious thought upon political development. MR. PORT. Tu Th 2:10–3:25.
- 22. Modern Britain: 1714 to Today.** [9]
The transformation of the society of Squire Western into that of Harold Wilson. Emphasis upon the rise of industrialism, its effects upon Britain's domestic and international situations, and the development of the welfare state. PROFESSOR KOSS. Tu Th 2:10–3:25.
- [G6327x. The British Empire: 1589 to 1783.**
Autumn 1969. PROFESSOR WILLIAMSON. Not given in 1968–69.]
- V4328x. The British Commonwealth: 1783 to Today.**
The evolution of the Commonwealth as an assembly of equal and self-governing states; the rise of nineteenth-century British imperialism and its decline. PROFESSOR WILLIAMSON. M W 11.
- [25. The Establishment and Downfall of the French Monarchy: 1515 to 1789.**
Autumn 1969. PROFESSOR WOODBRIDGE. Not given in 1968–69.]
- [26. France in Turmoil: 1789 to Today.**
Spring 1970. PROFESSOR WOODBRIDGE. Not given in 1968–69.]
- 27. The Russian State and Society: Origins and Development, to 1861.** [9]
State institutions and social structure in ancient and modern Russia; the Kievan state; the development of Muscovite absolutism; Imperial Russia from the reforms of Peter the Great to the emancipation of the serfs. DR. RYU. Tu Th 2:10–3:25.
- 28. The Modernization of Russia: 1861 to Today.** [9]
Reform and Revolution in Imperial and Soviet Russia. Particular emphasis on the rise of socialism and the impact of industrialization. DR. RYU. Tu Th 2:10–3:25.
- 45. The Life and Lifetime of Sir Winston Churchill.** [0]
Colloquium.
Events in English and world history from 1874 to 1965, reflected in the writings, experiences, and career of the statesman whose lifetime and controversies spanned these nine decades. Prerequisite: permission of the instructor. PROFESSOR KOSS. Tu 3:35–5:25.

- [46. **Europe in the Age of Tyrannies: 1914–1945.**
Colloquium. PROFESSOR KOSS. Not given in 1968–69.]
49. **Government Enterprises and Their Historical Influences.** [0]
Colloquium.
A study of government enterprises, such as building activities, and their influence on the development of politics, art and architecture, business methods, and the industrial revolution in eighteenth- and nineteenth-century England. Prerequisite: permission of the instructor or the chairman. MR. PORT. W 1:10–3:00.
51. **American Civilization to the Civil War: A Survey.** [3]
Foundations of American culture in the Colonial period; the Revolution and the New Nation; social and economic ideas and movements between the Constitution and the Civil War. PROFESSOR HARRINGTON. M W F 11.
52. **American Civilization Since the Civil War: A Survey.** [3]
Industrialism, evolution, scientific scholarship, pragmatism and progressivism; their effects upon American writing, political thought, and religion, as the fore-runners of the present age. PROFESSOR HARRINGTON. M W F 11.
53. **American Colonial Culture.** [2]
Origins of Colonial populations; economic, religious, social and intellectual aspects of Colonial life in the seventeenth and eighteenth centuries. PROFESSOR HARRINGTON. M W F 10.
54. **The American Revolution.** [2]
Early relations of the colonies and the Mother Country; development of British colonial policy and colonial political institutions; ripeness of the colonies for freedom; organization of resistance; the clash of ideas and arms; internal significance of the Revolution and its subsequent influence. PROFESSOR HARRINGTON. M W F 10.
- [55. **From the Federal Constitution to Jacksonian Democracy.**
PROFESSOR WILLIAMSON. Not given in 1968–69.]
- 55x. **The United States from Constitution to Reconstruction.** [5]
The significant cultural, social, political, and economic developments in the United States from the Revolution to the Civil War and its conclusion. PROFESSOR WILLIAMSON. M W F 2.
- [56. **Sectionalism, Civil War, and Reconstruction.**
PROFESSOR WILLIAMSON. Not given in 1968–69.]
57. **Origins of Modern America: From Reconstruction to Progressivism.** [5]
The experiment of pro-Negro reconstruction; social Darwinism as the watershed between older America and modern America; the imperialist experiment; the Progressivism of the Theodore Roosevelt era. PROFESSOR RAUCH. M 2:10–4:00 and conferences.
58. **Achievements and Crises in Modern America: from Woodrow Wilson to Lyndon B. Johnson.** [5]
The formation of the welfare state; the crisis of puritanism in the twenties; economic and cultural radicalism in the thirties; antifascism and anticommunism; the civil rights movement and its dilemmas; the United States and world hegemony. PROFESSOR RAUCH. M 2:10–4:00 and conferences.
- [59. **The Classical Age of American Diplomacy: 1775–1823.**
PROFESSOR RAUCH. Not given in 1968–69.]

BARNARD COLLEGE

[60. American Diplomacy and Power: 1823 to Today.

PROFESSOR RAUCH. Not given in 1968-69.]

[61. Women in America: 1630-1890.

PROFESSOR BAXTER. Not given in 1968-69.]

[62. Women in America: 1890 to Today.

PROFESSOR BAXTER. Not given in 1968-69.]

64. Religion in America.

[5]

Religious thought and institutions from Colonial times to the present. Special attention to developments in the nineteenth and twentieth centuries. PROFESSOR HARRINGTON. M W F 2.

65. History of Education in the United States.

[5]

PROFESSOR GRAHAM.

71. European Travelers in the United States: to 1860.

[0]

Colloquium.

Studies in the accounts of European travelers in the United States selected to illustrate their different points of view and their reaction to American developments. Prerequisite: permission of the instructor. PROFESSOR HARRINGTON. W 2:10-4:00.

74. Critics of Modern America: 1865 to Today.

[0]

Colloquium.

Utopian novelists, social critics, the literary attack on the Genteel Tradition, socialists, muckrakers, Progressives, expatriates and nihilists. European commentators from Matthew Arnold to Simone de Beauvoir are considered alongside native critics. Prerequisite: permission of the instructor. PROFESSOR BAXTER. Tu 2:10-4.

81. Junior Readings in European History.

[0]

Students will read, criticize and discuss significant works in history to learn historical method and the historian's art. PROFESSOR WILLIAMSON. Tu 3:35-5:25.

82. Junior Readings in European History.

[0]

Same as History 81, Spring Term. PROFESSOR WEMPLE. Tu 3:35-5:25.

83. Junior Readings in American History.

[0]

Six books, each a major examination of some aspect of the American experience, are read, reported on, and discussed. Emphasis on learning historical method and the historian's art. PROFESSOR BAXTER. Tu 3:35-5:25.

91-92. Senior Seminars in European Civilization.

[0]

Students will conduct individual research, in consultation with the instructor, on subjects in European thought and society of particular interest to themselves. The results of each project will be presented in seminar discussion in the form of the senior essay. PROFESSORS KOSS and WEMPLE. Section I W 4:10-6. Section II Th 4:10-6.

93-94. Senior Seminar in American Civilization.

[0]

Individual research on diverse aspects of American history and presentation of results in seminar discussion in the form of the senior essay. PROFESSOR BAXTER. W 4:10-6.

ITALIAN

PROFESSOR: MARISTELLA DE PANIZZA LORCH
(Chairman for Barnard College; 231 Milbank Hall)

ASSISTANT PROFESSOR: ANTONIO FRANCESCHETTI

INSTRUCTOR: P. NICO SOLINAS

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD
STUDENTS:

PROFESSORS: PAUL O. KRISTELLER, ¹JOHN C. NELSON, MARIO A. PEI, OLGA
RAGUSA, LUCIANO REBAY (Departmental Representative for Columbia
College)

ASSOCIATE PROFESSOR: ²A. KENT HIEATT

ASSISTANT PROFESSOR: ROBERT HANNING

INSTRUCTOR: ALBERTA FABRIS GRUBE

LECTURER: IRVING PORTNER

A major in Italian is expected to attain (a) sufficient knowledge of the language to enable her to read, write and speak it, (b) a fundamental acquaintance with Italian literature, (c) ability to understand and interpret literary texts in Italian.

Courses: A minimum of ten courses, exclusive of language courses, to be planned as early as possible in consultation with the department; Course V3991x-V3992y.

Allied subjects: In consultation with their major adviser students should select courses in other languages and literatures, music, art history, philosophy, and religion.

The major examination consists of four hours of written work and an oral examination.

FOREIGN LANGUAGE REQUIREMENT FOR THE DEGREE: All new students who intend to satisfy the foreign language requirement in Italian must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken Italian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing a full-year literature course, given in Italian, or Course V3333x with a minimum grade of B+.

Casa Italiana: The Casa Italiana, located on Amsterdam Avenue at 117th Street, is open to all students interested in Italian culture and literature. A program of lectures, concerts, plays, poetry recitations, and informal gatherings is organized to meet the students' needs.

LANGUAGE COURSES

V1101x-V1102y. Elementary Full-Year Course.

An integral course for beginners with intensive oral-aural drill. Reading, translation, conversation. May not be taken simultaneously with Spanish 1-2. No credit is given for Course V1101x until Course V1102y has been completed. Work in the

¹ Absent on leave, Autumn Term.

² Absent on leave, 1968-69.

BARNARD COLLEGE

language laboratory for one hour weekly is a required part of the course. PROFESSOR FRANCESCHETTI, DRs. GRUBE and SOLINAS. Section I M Tu W Th F 9 (DR. SOLINAS). Section II M W F 12 and Tu Th 11 (DR. GRUBE). Section III M Tu W Th F 3:10 (PROFESSOR FRANCESCHETTI).

V1201x–V1202y. Intermediate Course.

A review of the essentials of grammar, intensive and extensive reading, translation, composition, and practice in conversation. DRs. GRUBE and SOLINAS. Section I M W F 11 (DR. GRUBE). Section II M W F 12 (DR. SOLINAS).

V1301x–V1302y. Intensive Elementary and Intermediate Course.

For linguistically gifted students who wish to acquire by intensive study the reading skill necessary to interpret Italian literary texts, and training in composition and conversation. This course may be taken, with the permission of the department, towards the fulfillment of the language requirement, provided it is followed by a one-year course in Italian literature. PROFESSOR FRANCESCHETTI. M Tu W Th F 2:10.

LITERATURE COURSES

For nonmajors, courses marked thus § will count toward the general college requirement. All courses are conducted in Italian.

§V3333x–V3334y. Introduction to Italian Literature.

Prerequisite: V1202 or the equivalent. Reading and interpretation of major Italian authors; training in composition. DR. GRUBE. M W F 2:10.

§V3535x–V3536y. Dante, Petrarch, and Boccaccio. PROFESSOR LORCH.

Selected reading and analysis of the *Divine Comedy*, the *Canzoniere*, and the *Decameron*. DR. SOLINAS. M W F 1:10.

[§V3537x–V3538y. Italian Humanism, and the Italian Renaissance.

Not given in 1968–69.)

§V3639x–V3640y. Italian Literature from 1550 to 1800.

Reading and analysis of literary texts of the period. PROFESSOR FRANCESCHETTI. M W F 4:10.

[§V3733x. Modern and Contemporary Italian Literature.

Not given in 1968–69.]

§V3991x–V3992y. Seminar in Italian Literature.

Required of majors. Open to other qualified students by permission of the chairman of the department. Intensive analysis of literary masterworks leading to the preparation of a critical essay. PROFESSOR REBAY. M 2:10–4.

COURSES GIVEN IN ENGLISH

Students majoring in Italian may take these courses only with the permission of the chairman of the department.

V1122y. Studies in the Italian Renaissance.

Study of love, nature, and art as reflected in the works of Boccaccio, Valla, da Vinci, Ariosto, Michelangelo, Tasso. PROFESSOR LORCH. Th 3:30–5:10. Third hour to be arranged.

[§V1131x–V1132y. Dante, Petrarch, and Boccaccio. PROFESSOR LORCH.

Not given in 1968–69.]

V3641x. The Italian Theater and Its Contribution to European Theater.

A study of literary and dramatic characteristics of Renaissance comedy, tragedy, pastoral drama, and commedia dell'arte will be followed by a brief history of the melodrama and the romantic opera. The course will conclude with an analysis of Pirandello's theater. Students will give an oral report and write a term paper on their report. PROFESSOR LORCH. Tu 3:30-5:10.
Third hour to be arranged.

§Italian-English C3049x-C3050y. Italian and English Texts, 1300-1650.

Prerequisite: instructors' permission. Credit toward a major in Italian or English upon permission of the department. Both teachers present at all sessions. Texts and lectures in English and Italian, discussions in either language. Mutually illuminating Italian and English materials. Relevant texts by Dante, Boccaccio, Chaucer, Petrarch, Machiavelli, Ariosto, Tasso, Spenser, Sidney, Shakespeare, and others are studied, and the development of genres and traditions is followed where materials in Italian and English usefully complement each other. PROFESSORS HANNING and LORCH. Tu Th 11-12:15.

**GENERAL STUDIES COURSES IN CONVERSATION
AND COMPOSITION**

(Conversation courses are not to be taken for credit.)

F1111x-F1112y. Elementary Conversation.

Intensive practice in pronunciation, vocabulary, reading aloud, comprehension of spoken language, and conversation.

F1221x-F1222y. Intermediate Conversation.

Intensive practice in pronunciation, vocabulary building, reading aloud, comprehension of the spoken language, oral composition, brief talks, group discussions, and conversation.

F3331x-F3332y. Advanced Conversation.

Intensive practice in spoken Italian on an advanced level. Conducted exclusively in Italian for small groups.

F3335x-F3336y. Composition and Translation.

Training in correct expression in written Italian.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified majors with the consent of the chairman of the department. A description of these courses will be found in the Announcement of the Graduate Faculties.

G4003x. History of the Italian Language.

PROFESSOR PEI. Th 4:40-6:30.

G4005x-G4006y. Studies in Italian Lyric Poetry (in Italian).

PROFESSOR REBAY. M 5:10-7.

G4052. Italian Literature in the Second Half of the Nineteenth Century (in Italian).

PROFESSOR RAGUSA. W 5:10-7.

G4075x-4076y. Dante.

PROFESSOR LORCH. Th 4:10-6.

G4087y. Italian Literature of the Sixteenth Century.

PROFESSOR NELSON. Tu W 2:10-4.

LINGUISTICS

ASSISTANT PROFESSOR: JOSEPH L. MALONE

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION TO BARNARD STUDENTS:

PROFESSOR: ROBERT AUSTERLITZ

ASSISTANT PROFESSOR: JAMES A. MATISOFF

The purpose of the study of linguistics is to develop understanding of the nature of language. The major is designed to provide the student with a broad appreciation of the fundamental problems of language analysis, some training in the techniques of linguistic research, as well as insight into the interrelations of linguistics with the other social and communicational sciences, the humanities, and philosophy and mathematics.

Information regarding the requirements for a major in linguistics may be obtained from the department.

- 21, 22. Introduction to Linguistics.** [5]
The nature of language. Characteristics of phonological and grammatical systems and of the lexicon. Evolution of language. Role of linguistics in related disciplines. Modern techniques of linguistic analysis. PROFESSOR MALONE. M W F 2:10.
- 23. Synchronic Linguistics.** [13]
Varied approaches to problems in synchronic linguistics, selected to emphasize critical points in linguistic theory. Prerequisite: Linguistics 21, 22. PROFESSOR MATISOFF. M W 4:10-5:25.
- 26. Historical Linguistics.** [3]
The principles of both historical and comparative linguistics, with some consideration of the role of philology. Prerequisite: Linguistics 21, 22. PROFESSOR MALONE. M W F 11.
- 41. Linguistics Analysis.** [9]
Detailed examination of a linguistic problem chosen by the instructor: the Finnish adverbials. Introduction to Finnish grammatical constructions; analysis of the adverbials, their role in the sentence and their place in grammar. No previous knowledge of Finnish is required. Prerequisite: Linguistics 21, 22. PROFESSOR AUSTERLITZ. Th 2-4.
- 60. Seminar in Linguistics.** [0]
Supervised research in the student's language of specialization; preparation of a term paper. Prerequisite: the linguistics major, and senior standing. PROFESSOR MALONE. M W 10.

MATHEMATICS

PROFESSORS: ¹PATRICK X. GALLAGHER (Chairman; 333 Milbank Hall), WALTER C. STRODT

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION TO BARNARD STUDENTS:
PROFESSORS: MASATAKE KURANISHI, LIPMAN BERS, SAMUEL EILENBERG, SERGE LANG

ASSISTANT PROFESSORS: ARMAND BRUMER, ROBERT GARDNER, ALAN LANDMAN, MARTIN MOSKOWITZ

RITT INSTRUCTORS: J. MARSHALL ASH, PETER BLUM, W. J. HARVEY, RAYMOND T. HOOBLER, JAMES KELLEHER, DAVID PRILL, JOHN J. WAVRIK

Students taking only one year of mathematics ordinarily take Courses 7, 8 or 15, 16, the latter being preferred if the mathematics is to be used in science courses. Calculus is offered in three sequences, designated A, B, and C. Students with above-average ability, or with a sustained interest in mathematics, particularly prospective mathematics majors, are expected to take the B or C sequence. These courses are, moreover, usually preferable to skipping a term of calculus when a student's background makes this choice possible.

An advanced placement score of 4 or 5 earns admission to the freshman section of IIIB, and advanced placement credit equivalent to one course, which is increased to two courses upon successful completion in the freshman year of IC-IIC or IIIB-IVB. A score of 3 earns admission to IIIA or IIB. Students who have had a course in differential calculus (but have not had a thorough grounding in integration) may take IIB.

A major in mathematics: Eight courses, (exclusive of 7, 8, 56, 3005, 3006, 3202) are required. These must include the following: Calculus I-IV (in the B or C sequence, if possible); either 35, 36 or 3161, 3262; at least two from among 31, 40, 3040, 3141. At least six of the required courses should be completed by the junior year. Graduate courses and courses in allied fields, such as statistics, physics, applied mathematics, history of science, etc., are often taken. Majors planning graduate study are advised to obtain a reading knowledge of two of the three languages: French, German, Russian.

The major examination, in the senior year, consists of the Graduate Record Examination.

²7, ²8. Mathematical Analysis. [2]

Designed to give the student who intends to take only one year of college mathematics as broad a view as possible of the nature of mathematics. Autumn Term: Trigonometry and algebra. Spring Term: Topics in analytic geometry, differential and integral calculus. This course is primarily for those who do not plan to major in mathematics or a physical science. Course 7 is prerequisite to Course 8. DR. WAVRIK. M W F 10.

15, 16. Calculus IA and IIA. [3]

The differential and integral calculus of functions of one variable. Analytical geometry is introduced as needed. Limits, continuity, and differentiation; the construction of algebraic, exponential, and trigonometric functions, with their

¹ Absent on leave, Spring Term.

² Courses may not be counted toward a major in mathematics.

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inverse functions and derivatives; the integral and the fundamental theorem of calculus; integration techniques; infinite sequences and series; applications to geometry and physics. Prerequisite: trigonometry. PROFESSORS GALLAGHER and BERS. M W F 11. Fourth hour to be arranged.

C1103x, C1104y (or C1104x). Calculus IB and IIB.

The same material as Course 15, 16, with greater emphasis on the understanding of the mathematical concepts and logical structure. M W F 11.
Recitation sections: Tu or Th 8 or 12.

C1107x, C1108y. Calculus IC and IIC.

The same material as Course 15, 16. The terminology and style are thoroughly modern. Intended for students who have facility with discussions on an abstract level, or who appear likely to develop such facility early. Admission is by examination, given by the Columbia mathematics department during Freshman Week. PROFESSOR EILENBERG. M W F 11.

C1201x, C1202y. Calculus IIIA and IVA.

The differential and integral calculus of functions of several variables, and elements of vector analysis. Topics include partial derivatives, multiple integrals, linear equations, determinants, and matrices. Applications to geometry and physics. Prerequisites: Calculus IIA or the equivalent for IIIA, Calculus IIIA for IVA. PROFESSOR GARDNER. Tu Th 11. Recitation sections: M or W, 8 or 12.

C1203x (or C1203y), C1204y (or C1204x). Calculus IIIB and IVB.

The same material as Calculus IIIA, IVA, with greater emphasis on the understanding of the mathematical concepts and the logical structure. Prerequisites: Calculus IIB or the equivalent for IIIB, Calculus IIIB for IVB. PROFESSORS MOSKOWITZ, BRUMER, and KURANISHI.

C1203x, C1204y: Section I Tu Th 11–12:15. Recitation sections: M or W, 8 or 12.
Section II M W F 11. Recitation sections: Tu or Th, 8 or 12 (freshman section).
C1203y, C1204x: M W F 11. Recitation sections: Tu or Th, 8 or 12.

C1207x, C1208y. Calculus IIIC and IVC.

The material of Calculus IIIA, IVA plus additional topics, as time permits. The terminology and style are thoroughly modern. Prerequisites: Calculus IIC for IIIC, Calculus IIIC for IVC. PROFESSOR LANG. Tu Th 11–12:15.

31. Number Theory.

[6]

Congruences, quadratic residues, Gaussian sums. Number-theoretic functions. Distribution of primes. Irrational, algebraic and transcendental numbers. Prerequisite: Calculus II or the equivalent. DR. HOOBLER. Tu Th 9:10–10:25.

35, 36. Analysis.

[7]

An introduction to the theory of functions of one or several real variables. Topological spaces and continuity, differentiability, and functional relations for mappings of Euclidean spaces, elements of the theory of Riemann and Lebesgue integration, infinite sequences and series. Prerequisite: Calculus IV or the equivalent. PROFESSOR STRODT. Tu Th 10:35–11:50.

40. Group Theory and Linear Algebra.

[6]

Groups, subgroups, factor groups, with examples. Vector spaces, linear transformations, characteristic polynomial. Inner products. Representations of finite groups. Prerequisite: Calculus III. DR. HOOBLER. Tu Th 9:10–10:25.

[¹56. **Advanced Calculus.**

Not given in 1968–69.]

[61. **Introduction to Modern Mathematics.**

Not given in 1968–69.]

¹W3005x, ¹W3006y. **Advanced Calculus for Science Majors.**

Completion of the basic calculus sequence with the essential groundwork for applications to physics and engineering. Autumn Term: Power series in several variables, differentiation of maps, implicit function theorem, change of variables in multiple integration, Green's and Stoke's Theorem. Vector notation is used. Spring Term: Uniform convergence, differentiation of series and integrals. Riemann-Stieltjes integrals, Fourier series, Legendre polynomials, Bessel functions, orthogonality. Terms may be taken in either order. Prerequisite: Calculus IV.

DR. KELLEHER. Tu Th 1:10–2:25.

W3007x. **Complex Variables.**

An elementary course in functions of a complex variable. Complex numbers, analytic functions, Cauchy-Riemann equations. Cauchy integral theorem, Taylor and Laurent series, poles and essential singularities, conformal mapping. DR.

PRILL. M W 1:10–2:25.

W3010x. **Fundamental Concepts of Mathematics.**

The groundwork on which almost all modern mathematics rests. Sets, mappings, relations, ordered sets, well-ordering, natural numbers, cardinal numbers, ordinal numbers, choice functions, Zorn's lemma, induction, real and complex numbers. Prerequisite: Calculus IV or the equivalent. DR. ASH. M W 4:10–5:25.

W3027x (or W3027y). **Differential Equations.**

The solution of ordinary differential equations, principally by formal methods. Applications to geometry and physics. Prerequisite: Calculus IV or equivalent.

Autumn Term: DR. HARVEY. Tu Th 5:40–6:55. Spring Term: DR. PRILL. M W F 10.

W3028y. **Partial Differential Equations.**

The solution of partial differential equations, with applications to problems in geometry and mechanics. Prerequisite: Course W3027x or equivalent.

DR. HARVEY. Tu Th 5:40–6:55.

W3040x, W3041y. **Introduction to Modern Algebra.**

Introduction to groups, rings, fields, with examples. Polynomials, algebraic number fields, the Galois theory and applications. Prerequisite: Calculus IV or consent of instructor. DR. WAVRIK. M W 2:40–3:55.

W3161x, W3162y. **Introduction to Modern Analysis.**

Topics include: Metric spaces and their completion, topological spaces and the theory of continuous functions and convergence, inverse mapping theorems and existence theorems for differential equations, differential forms and their integrals, Fourier transforms. Prerequisite: Calculus IV or the equivalent. PROFESSOR MOSKOWITZ. Tu Th 1:10–2:25.

¹W3202x (or W3202y). **Linear Algebra.**

Vector spaces, linear transformations, matrices, quadratic forms. Prerequisite: Calculus II or the equivalent. Autumn Term: Tu Th 5:40–6:55. Spring Term: DR. BLUM. Tu Th 10, W 12.

¹ Course may not be counted toward a major in mathematics.

W3375x. Geometric Topology.

Elementary combinatorial properties of polyhedra. The fundamental group; elementary homology theory and related invariants. Topology of surfaces and their classification. Prerequisite: Calculus IV or consent of instructor. DR. BLUM.
Tu Th 4:10–5:25.

W3386y. Differential Geometry.

Local and global differential geometry of submanifolds of Euclidean 3-space. Frenet formulas for curves. Various types of curvatures for curves and surfaces and their relations. The Gauss-Bonnet theorem. Prerequisite: Calculus IV or equivalent. Tu Th 4:10–5:25.

W3940x, W3941y. Seminar in Algebra.

Discussion and readings of selected topics in algebra. Prerequisite: Course W3041. PROFESSOR LANDMAN. M W 2:40–3:55.

W3961x, W3962y. Seminar in Analysis.

Discussion and readings of selected topics in analysis. Prerequisite: Course W3162. M W 1:10–2:25.

Mathematical Statistics G4105x. Probability.

Fundamentals; random variables and distribution functions in one or more dimensions; the binomial, normal, and Poisson distributions; combinatorial problems; moments and characteristic functions; stochastic convergence and the law of large numbers; addition of random variables and limit theorems; the chi-square, t, and F distributions. Prerequisite: Calculus IV. Autumn Term: M W 5:40–6:55.

Mathematical Statistics G4106y. Elementary Theory and Applications of Stochastic Processes.

Special topics in probability theory which are important in applications: Markov chains, renewal theory, random walks, recurrent events, queuing theory, elementary stochastic processes. Prerequisite: Course G4105. Th 4:10–6.

GRADUATE COURSES

Students are urged to consult the Announcement of the Graduate Faculties for further information.

MUSIC

ASSOCIATE PROFESSOR: HUBERT DORIS (Chairman for Barnard; 709 Dodge Hall)

INSTRUCTORS: PATRICIA CARPENTER, KENNETH COOPER, DANIEL PAGET

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: JACK BEESON, WILLIAM J. MITCHELL, VLADIMIR USSACHEVSKY

ASSOCIATE PROFESSORS: CHOU WEN-CHUNG, NICHOLAS ENGLAND, JOEL NEWMAN, ERNEST SANDERS, HOWARD SHANET

INSTRUCTORS: CHARLES DODGE, WALTER HILSE, HARVEY SOLLBERGER, CHARLES WUORINEN

TEACHING STAFF IN APPLIED MUSIC:

DAVID JOSEPHSON, University Band

HOWARD SHANET, University Orchestra

M. SEARLE WRIGHT, Chapel Choir

A major in music is designed to integrate music as an art and a craft within the framework of the liberal arts.

A student intending to major in music should plan to take Courses 1-2 and V1331x-V1332y in her first two years, as these courses are prerequisite to the advanced courses in literature, theory, and history which are normally included in a major program.

In general, major programs are planned to include nine courses of advanced work (exclusive of Course 1-2) in literature, history, and theory. Ordinarily Courses V3123x-V3124y, V1331x-V1332y, V3333y, V3334x, V3335x, and V3373x-V3374y are required. (Courses V3336y and V3239x-V3240y are required of students intending to specialize in composition.) Course V3125x is highly recommended as an elective. Applied music (a maximum of one course) may be counted towards the degree but is not required.

Other fields: A reading knowledge of German, Italian, or French is required. Students planning to do graduate work in musicology, or ethnomusicology, must know at least two foreign languages, including German and French. Courses in art history, history, philosophy, literature, and foreign languages are recommended for their relationship with musical studies, and should be elected after consultation with the department.

Students are advised to consult the Announcement of the Graduate Faculties for those courses open to seniors and others with advanced training.

At the end of the sophomore year students planning to major in music will be expected to file with the department certificates stating that they have passed an examination in elementary piano. A student found deficient in piano techniques is required to take supplementary piano lessons at the Mannes College of Music. If she is unable to pay for such lessons herself, she may apply to the college for financial aid. As with other applied music activities, these lessons will carry the equivalent of one quarter academic credit per semester.

Majors must have participated for two years in the chorus, orchestra, choir, concert band, or other musical ensembles by the time they are graduated.

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Students majoring in music are required to take a major examination at the end of the senior year which will test their ability to deal primarily with problems in music history, theory, and analysis.

Practice rooms: The department provides practice rooms at a nominal charge. Preference in assigning hours is given in order of application to music majors and those enrolled in courses given by the department. Application for practice time should be made at the Office of Buildings and Grounds, Milbank Hall: during registration and the first week of classes by music majors, and by all others during the week following.

Library: Books, scores and records are available at the Barnard College Library. The Columbia University Music Library contains an extensive collection of music materials for reference, research, and circulation. In addition, phonographs with a large collection of recordings are also available for use by students registered in music courses other than Course 1-2.

LITERATURE AND HISTORY

1-2. An Introduction to Music.

A study of the elements of musical structure designed to form intelligent listening habits, and of the several great epochs of music, with emphasis on their style and structure. No previous knowledge of music is required. PROFESSOR DORIS, MISS CARPENTER and MR. COOPER. Section I M W F 10. [2] Section II M W F 11. [3] Section III M W F 12. [12] One hour per week of supervised listening.

V1003y. Literature of the Solo Song.

A study of vocal literature from the eighteenth century to the present. Prerequisite: Course 1-2 or the equivalent. PROFESSOR DORIS. M W F 2.

[1004y. **Literature of the Pianoforte.** PROFESSOR DORIS. Not given in 1968-69.]

V1005y. The Opera.

A rapid survey of the development of opera from Monteverdi to the present. Prerequisite: Course 1-2 or the equivalent. PROFESSOR BEESON. M W 3:10-5.

V1006x. The Symphony.

A survey of symphonic style and structure from about 1750 to the present. Prerequisite: Course 1-2 or the equivalent. PROFESSOR SANDERS. M W 1:10-3. One hour is a listening hour.

V1007x. Music of the World's Peoples.

An introduction to the so-called primitive folk and traditional music of the world's peoples. One hour of class time each week will consist of musical illustrations. Prerequisite: Course 1-2 or the equivalent. PROFESSOR ENGLAND. M W 3:10-5.

V1008y. Contemporary Music.

A survey of contemporary music from Debussy to the present. Prerequisite: Course 1-2 or the equivalent. PROFESSOR CHOU. Tu Th 2:10-4.

V1012y. Haydn and Mozart.

A study of the significant works of Haydn and Mozart. Prerequisite: Course V1331 or the instructor's permission. MR. COOPER. Tu Th 2:10-4. One hour is a listening hour.

V1109x, V1110y. History of Dance.

A survey of the development, history, aesthetics, and philosophy of dance, with particular reference to drama, opera, ballet, and modern dance. Lectures and demonstrations; interviews with specialists in the field and practice in selected dance movements. MRS. ROOSEVELT and MR. SORELL. Tu 7:10–9:50 p.m.

V1015x. American Music.

A survey of music in America from Colonial times through the 1950's. Attention is given to the interrelationships among folk, "entertainment," and art music. Prerequisite: Course 1–2 or equivalent. PROFESSOR NEWMAN. Tu Th 2:10–4. One hour is a listening hour.

V1617x. Electronic Music: Its Evolution and Techniques.

A comprehensive survey of electronic music from 1948 to 1968, with detailed analysis of compositional techniques and their evolution and application by various groups and individual composers. Technical procedures employed in creating electronic sound materials will also be discussed. Prerequisite: Courses 1–2, V1331, AND the instructor's permission. Registration limited to 20 students. PROFESSOR USSACHEVSKY. Tu Th 7:10–8:25.

V3123x–V3124y. History of Music.

A survey of the history of music from the beginning of the Christian era to the nineteenth century. One hour of class time each week will consist of musical illustration. Prerequisite: Course V1331x–V1332y or the equivalent. PROFESSOR NEWMAN. Tu Th 9–10:50.

V3125x. Nineteenth-Century Music.

A history of music in the Romantic Era. This course is designed as a continuation of Course V3123x–V3124y, but may be taken separately and at any time after completion of Course V1332y. PROFESSOR DORIS. M W F 2:10.

V3179x–V3180y. Seminar. Historical and Analytical Studies in the Literature of Music.

Required seminar for senior majors to supplement and coordinate previous studies.

Section I PROFESSOR DORIS and MISS CARPENTER. W 3:10–5.

Section II PROFESSOR NEWMAN. F 1:10–3.

THEORY

V1331x–V1332y. Harmony I and II.

A study of the diatonic triadic tonal system. This course is required of music majors and should be elected by those nonspecialists planning to take more advanced courses in theory and composition. Textbook: Mitchell, *Elementary Harmony*, 3rd edition. Prerequisite: the ability to play the piano, the equivalent of a course in elementary musicianship, and the instructor's written permission. MESSRS. COOPER and ENGLAND. M W F 1:10. Laboratory hours: M W 2:10.

V1333x–V1334y. Harmony I and II.

The content of V1331x–V1332y is exemplified by a wide range of music literature with less attention to the details of part-writing. This course is designed for those students who do not plan to elect more advanced courses in theory or composition. Textbook: Mitchell, *Elementary Harmony*, 3rd edition. Prerequisite: as in V1331. MISS CARPENTER. M W F 1:10. Laboratory hours: M W 2:10.

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V3535x. Advanced Keyboard Techniques.

The study of sight-reading, advanced score-reading and figured bass improvisation at the piano as applied to the literature of music. Prerequisite: Course V1331-V1332 or the equivalent, the ability to play the piano, and the instructor's permission. Registration limited to 12 students. MR. COOPER. M W F 4:10.

V3333x. Chromaticism.

An analytical study of the elements of chromaticism. The exercises in various chromatic styles are taken from the literature and are designed to introduce the student to characteristic features of musical texture. Prerequisite: Course V1331x-V1332y or the equivalent. Parallel, advised but not required: Course V3335x, V3336y. PROFESSOR MITCHELL. M W F 10.

V3334y. Analysis.

Principles of design, texture, rhythm, and the organization of musical detail as revealed through a study of compositions selected from the several periods of musical history. Prerequisite: Course V3333x. Recommended, but not required: Course V3335x, V3336y. PROFESSOR MITCHELL. M W F 10.

V3335x. Species Counterpoint.

A study of the five species in two and three parts, strict style. MISS CARPENTER and MR. DODGE. M W F 12.

V3336y. Contrapuntal Techniques.

Contrapuntal practices; the composing and analysis of polyphonic works in various styles. MR. DODGE. M W F 12.

V3239x-V3240y. Composition.

Composition in the smaller forms, for voice, chorus, piano, organ, and pieces for violin or other instruments with piano. Prerequisite: Course V3333x or written permission of the instructor. MR. SOLLBERGER. Th 11-1.

V3241x-V3242y. Advanced Composition.

A continuation of Music V3239x-V3240y. Prerequisite: Course V3239x-V3240y or permission of the instructor. MR. WUORINEN. W 1:10-3.

V3373x-V3374y. Orchestration, Conducting, and Score-Reading.

Lectures and practice in orchestration and score-reading, supplemented by practical demonstrations of instruments. Prerequisite: Course V1331x-V1332y or the equivalent and written permission of the instructor. PROFESSOR SHANET. M W F 11.

PERFORMANCE ACTIVITIES (APPLIED MUSIC)

A detailed description of the following activities is given in the *Barnard Student Handbook*.

Academic credit, granted by petition at end of the semester, amounting to one quarter of a course per semester is given for participation in the following activities, with the exception of Music for an Hour.

Audition and rehearsal schedules for all activities will be posted outside the Columbia departmental office, at least a week before registration.

University Orchestra: PROFESSOR SHANET.

Auditions: During registration week by appointment. Room 703 Dodge.

Rehearsals: M 5:30–7:30 on the stage of McMillin Theatre, and M W F 5:30–7:30 in the three weeks preceding each concert.

Chapel Choir: MR. WRIGHT.

Auditions: Friday, September 20, from 2 to 5; Monday–Wednesday, September 23–25 from 10 to 12 and 2 to 5, in the Chapel Crypt.

Rehearsals: M W F 5–6:15.

Barnard-Columbia Chorus: MR. PAGET.

Auditions: During registration week by appointment. Room 703 Dodge.

Rehearsals: M W 7:30–9:30 p.m. in Room 304 Barnard Hall.

University Bands: MR. JOSEPHON.

Auditions: Concert Band, during registration week and by appointment.

Rehearsals: Tu Th 4–6.

Collegium Musicum.

This organization acquaints the student with certain neglected and unfamiliar masterpieces of vocal and instrumental music not heard in concerts elsewhere. Music majors are particularly urged to attend the meetings and to participate in performances.

Music for an Hour.

This series of informal chamber concerts, held the last Tuesday in every month in the James Room of Barnard Hall, is designed to give all interested instrumentalists a chance to perform for the University community. All those interested in participating should consult PROFESSOR DORIS.

ORIENTAL STUDIES

ASSOCIATE PROFESSOR: JOHN MESKILL (Department Representative; 101 Barnard Hall)

INSTRUCTOR: BARBARA STOLER MILLER

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION JOINTLY TO BARNARD and COLUMBIA STUDENTS:

PROFESSORS: WM. THEODORE DE BARY, IVAN MORRIS, ALEX WAYMAN

ASSOCIATE PROFESSORS: ALBERT DIEN, CHIH-TSING HSIA, BURTON WATSON, HERSCHEL F. WEBB

ASSISTANT PROFESSORS: FRANK BALDWIN, J. MASON GENTZLER, ANDREW MARCH, H. PAUL VARLEY

INSTRUCTORS: LEONARD GORDON, JEANETTE WAKIN

PRECEPTORS: FRANKLIN DOERINGER, ROBERT GIMELLO, FREDERICK UNDERWOOD, JACK VAN HORN

Oriental Studies aims to provide, by means of the first three courses listed below, an introduction to major aspects of four living Asian civilizations. These courses are designed for any student, whatever her major, who wishes to include knowledge of Asia in her education.

Majors in the program will be prepared for further study in graduate school or some other related professional training. They will concentrate on one of the following regions or countries: the Near and Middle East, India, China, or Japan.

Program. *As corollary requirements and prerequisites:*

Approximately three courses in a regular academic department, such as history or literature.

Either Oriental Civilizations V3355x–V3356y or Oriental Civilizations V3001x–V3002y, usually to be completed by the end of the sophomore year.

As major requirements:

Two years of an Oriental language (in addition to other college language requirements).

6 courses in Oriental subjects, divided between the social sciences and the humanities.

A senior seminar, or its equivalent.

A major examination or, in some circumstances, a shorter examination and a paper.

All individual courses will be chosen in consultation with the major adviser. Majors in the program come under the administration of Area Studies. For admissions procedures and other details, see page 48.

Oriental Civilizations V3355x–V3356y.

The more important factors in the life of peoples of India, China, and Japan, together with an appraisal of their role in the world today. Autumn Term: The evolution of these civilizations to recent times, emphasizing their characteristic institutions and intellectual traditions. Spring Term: Developments in the nineteenth and twentieth centuries as these societies have confronted the modern West while still grappling with age-old problems. Fourth hour: Lectures and audio-visual illustrations. Prerequisite: History 1–2 or permission of instructor. PROFESSORS DE BARY, DIEN, GENTZLER, MESKILL, VARLEY, and WEBB, MR. GORDON and MRS. MILLER. Section I M W F 9. Section II M W F 10. Section III M W F 11. Section IIIA M W F 11. Section IV M W F 2:10 Fourth hour W 12.

Oriental Humanities V3399x–V3400y.

A selection from the works of Near Eastern, Indian, Chinese, and Japanese authors. This course will be conducted as a colloquium and will be devoted to readings in translation and discussion of major works in the literature, philosophy and religion of several Oriental traditions. The Autumn Term will deal with works from the Near East and India; the Spring Term with readings from China and Japan. Open to juniors and seniors who have completed two courses of literature and one course of philosophy or religion, or have written permission of instructor. PROFESSORS DE BARY, GENTZLER, HSIA, MESKILL, MORRIS, and WAYMAN, and MR. DOERINGER, MRS. MILLER, MRS. WAKIN, MR. UNDERWOOD, and MR. VAN HORN.

Section I	Tu 3:10–5.	(Columbia students)
Section II	W 2:10–4.	(Columbia students)
Section III	Th 3:10–5.	(Columbia and Barnard students)
Section IV	Th 7:10–9 p.m.	(Columbia students)
Section V	F 1:10–3.	(Columbia and Barnard students)
Section VI	M 3:10–5.	(Barnard students)
Section VII	Tu 7:10–9 p.m.	(General Studies students)

Oriental Civilizations V3001x–V3002y. Introduction to Islamic Civilization.

Autumn Term: An examination of Islamic civilization. Its institutional and intellectual characteristics to A.D. 1800. Spring Term: Important factors, such as the impact of the West and nationalism, on the Islamic peoples from 1800 to the present. MRS. WAKIN. M W 3:10–4:25.

Oriental Studies V3379x. Junior Readings in Oriental Studies.

Reading and discussion of major studies on Asian civilizations, for the purpose of appraising concepts and methods currently employed in the field. For majors and, by permission, other students. Prerequisite: Oriental Civilizations V3355x–V3356y. MEMBERS OF THE DEPARTMENT. Th 3:35–5:15.

History G6525x, G6526y. History of Modern India.

The development of modern India from the decline of the Mughal Empire to the present time. Special attention will be given to the impact of the West, the rise of nationalism, the social, political and economic problems of independent India, and foreign relations. Permission of instructor required. MR. GORDON. M W 10.

Chinese History G6815x, G6816y. Introduction to the Civilization of China.

An examination of Chinese history from ancient times to the beginning of the seventeenth century, with special attention given to characteristic political, economic and social developments. Permission of PROFESSOR MESKILL required. PROFESSOR BIELENSTEIN. M W 11.

Oriental Studies V3501x, V3502y. Seminar in Asian Literature.

Autumn Term: Selected themes of Chinese, Japanese, and Indian poetry. Spring Term: Selected topics in the contemporary literature of China, Japan, India, and the Near East. Open to juniors and seniors with the permission of PROFESSORS MESKILL or GENTZLER. PROFESSOR GENTZLER. W 2:10-4.

Oriental Studies V3507x, V3508y. Seminar on Comparative Studies in Asian Civilizations.

Autumn Term: Concepts of Asia in European and Asian social and historical thought. Spring Term: Studies in the modernization of the traditional societies of China, Japan, and India. Permission of PROFESSORS MESKILL or GENTZLER required. PROFESSORS MARCH and VARLEY, and Mr. GORDON. M 7:10-9 p.m.

The following courses in Columbia University are open to majors who have the consent of their advisers and PROFESSOR MESKILL, Officer in charge of Area Studies. Descriptions may be found in the Announcements of Columbia College, the Graduate Faculties and the School of General Studies.

Anthropology G4187x. Problems of South Asian Ethnology.

PROFESSOR KLASS. W 1:10-3.

Arabic F1101x-F1102y. Elementary Arabic.

PROFESSOR MADINA. M 6:40-7:55 p.m. Th 6:10-7:25 p.m.

Chinese C1101x-C1102y. Elementary Chinese.

MRS. CHANG SOBELMAN and MRS. HSIA. Section I M Tu W Th F 9. Section II M Tu W Th F 9. Section III M Tu W Th F 10. Section IV M Tu W Th F 11.

Chinese C1201x-C1202y. Intermediate Chinese.

MISS PAN. M Tu W Th F 9.

Chinese G4005x-G4006y. Advanced Chinese.

PROFESSOR WATSON and MR. LO. Section I Tu Th 11-12:50. Section II M W Th 5:35-7.

Chinese G4031x, G4032y. Chinese Literature.

PROFESSORS HSIA and WATSON. Tu Th 10.

[Chinese G4033x. Modern Chinese Literature.

PROFESSOR HSIA. Not given in 1968-69.]

Chinese-History G6825x, G6826y. History of Modern China.

PROFESSOR WILBUR. W 2:10-4.

[Chinese G6027x. Introduction to Chinese Thought.

PROFESSOR DE BARY. Not given in 1968-69.]

History-Japanese G6840y. Japan in the Twentieth Century.

PROFESSOR TIEDEMANN. Th 2:10-4.

History-Japanese G6832x. Early Japan.

PROFESSOR MORRIS. Tu Th 11.

Japanese C1101x-C1102y. Elementary Japanese.

PROFESSOR M Tu W Th F 11.

Japanese C1201x-C1202y. Intermediate Japanese.

PROFESSOR M Tu W Th F 10.

Japanese G4005x-G4006y. Advanced Japanese.

PROFESSORS SHIRATO and Section I M W F 11-12:15. Section
II M W Th 6:10-7:35.

Japanese G4031x, G4032y. Japanese Literature.

PROFESSOR KEENE. Tu Th 10.

Japanese G6027x-G6028y. Introduction to Japanese Thought.

PROFESSOR DE BARY. F 2:10-4.

Persian G4602y. Introduction to Persian Literature.

PROFESSOR YAR-SHATER. Tu 2:10-4.

Sanskrit G4101x-G4102y. Elementary Sanskrit.

PROFESSOR SCHWARTZ.

PHILOSOPHY

PROFESSORS: JOSEPH GERARD BRENNAN, MARY MOTHERSILL (Chairman; 35 Milbank Hall)

ASSOCIATE PROFESSOR: SUE HOWARD LARSON

ASSISTANT PROFESSOR: MALCOLM SPENCER BROWN

INSTRUCTOR: ROBERT E. MCGINN

The major in philosophy is designed to develop competence in techniques of conceptual analysis and to acquaint the student with the major areas for investigation in traditional and contemporary philosophic theory.

Within the limits of the prerequisites described below, philosophy courses may be taken in any sequence: the numbers assigned to particular courses indicate roughly the level of competence expected of students. (Transfer students who wish to count courses taken elsewhere as prerequisites for Barnard courses must have written permission from the Chairman of the Philosophy Department and may be required to take a placement test.)

A student who majors in philosophy is required to take the following courses or their equivalents: 1, 5, 8, 35, 36, and in the senior year, the seminar, 87–88. A six-hour written major examination at the end of the senior year is required. Qualified senior majors are permitted to enroll in philosophy courses offered by the Graduate Faculties of Columbia University. Permission for such enrollment should be obtained from the chairman of the Barnard department.

1x (or 1y). Introduction to Philosophy.

Interpretation and analysis of major topics in ethics, metaphysics, theory of knowledge. Readings from historical and contemporary sources. PROFESSORS BRENNAN, MOTHERSILL, LARSON, BROWN and Mr. MCGINN. Section I M W F 9. [1] Section II M W F 10. [2] Section III M W F 11. [3] Section IV Tu Th 10:35–11:50. [7] Section V M W F 12:10. [12]

2x (or 2y). First-Year Seminar.

[9]

Intensive study of recent philosophical literature on a topic to be selected by the instructor. The aim of the course is to acquaint students with current philosophical methods and sources and to provide experience in writing and discussion. Several short papers and one long paper will be required. Open to a limited number of students upon completion of Course 1 and departmental recommendation. Autumn Term: PROFESSOR LARSON. Spring Term: PROFESSOR BROWN. Tu Th 2:10–3:25.

5. Logic I.

[4]

Presented as a formal science, logic will be distinguished from the methodology of the empirical sciences. Analysis of the formal elements of classical logic will be followed by an introduction to symbolic logic. PROFESSOR BRENNAN. M W F 1:10.

8. Ethics.

[6]

An introduction to the central problems of moral philosophy. Among the topics covered are: action and reasons for action; pleasure and pain; obligation, rights and duties; alternative moral ideals; the use of moral language. Prerequisite: Course 1 or the permission of the instructor. PROFESSOR MOTHERSILL. Tu Th 9:10–10:25.

- 32. Logic II.** [9]
An introduction to symbolic logic through quantification theory. Explication of concepts such as the following: sentence interpretation; truth; consequence; validity; consistency; tautology; derivation. Prerequisites: Course 5 or the permission of their instructor. MR. MCGINN. Tu Th 2:10-3:25.
- 35, 36. History of Philosophy.** [2]
Autumn Term: Ancient and medieval philosophy. Spring Term: Modern philosophy. Prerequisites: Course 1 or 5 or permission of the instructor. Either term may be taken separately. PROFESSOR BROWN. M W F 10.
- 38. Twentieth-Century Philosophy.** [5]
A study of selected topics in contemporary English and American philosophy. MR. MCGINN. M W F 2:10.
- 39, 40. Supplementary Readings in Philosophy.** [0]
To be taken only with the consent of the instructor and the permission of the department.
- 41. Aesthetics.** [6]
Systematic consideration of problems in aesthetics and philosophy of art including: the nature of aesthetic concepts; visual form and representation; expression; aesthetic functions of language; the possibility of resolving conflicts of taste. Prerequisite: Course 1 or the permission of the instructor. PROFESSOR MOTHERSILL. Tu Th 9:10-10:25.
- 43, 44. Philosophical Implications of the Modern Novel.** [3]
Autumn Term: Reading of Schopenhauer's *The World as Will and Idea* and three works of Nietzsche, followed by a study of Thomas Mann's *The Magic Mountain*, accompanied by a reading of other Mann works. Herman Hesse's novels are discussed with particular attention to *Steppenwolf* and *Magister Ludi*. Spring Term: The Flaubert-Joyce theory of art and the artist is compared to the views of Tolstoy and Henry James. The relation of Bergson's philosophy to the work of Gide and Proust is examined, and certain novels of the French "Mandarins" are read. A small number of twentieth-century English and American novels will be read with reference to implicit ideologies and world views. Either term may be taken separately. Not open to freshmen. PROFESSOR BRENNAN. M W F 11.
- 47. Philosophy of Science.** [9]
A systematic exploration of problems related to the natural and social sciences. The topics for discussion include the following: explanation; law; theory; grounds of inductive inference; probability; theory of measurement. Prerequisite: Course 1 or Course 5 or permission of the instructor. MR. MCGINN. Tu Th 2:10-3:25.
- 75. Social Philosophy.** [5]
A consideration of issues such as the following: the concept of the state; law; public interest; the measurement of utility; theory of social decision. Prerequisite: Course 1, 5, 8 or the permission of the instructor. MR. MCGINN. M W F 2:10.
- 77. Theory of Knowledge.** [7]
A general account of the concepts of belief, knowledge, evidence, judgment and error. Readings from contemporary and classical sources. Prerequisites: Course 1, 5 or permission of the instructor. PROFESSOR BROWN. Tu Th 10:35-11:50.

- 82. Metaphysics.** [9]
Systematic consideration of problems related to some fundamental metaphysical distinctions, including substance-attribute, particular-universal, mind-body, necessity, contingency and causality. Readings in contemporary and classical philosophy. Prerequisite: Course 1 or the equivalent. PROFESSOR LARSON. Tu Th 2:10-3:25.
- 84. Philosophy of Education.** [4]
The values and goals of education; a study of contemporary problems against classical backgrounds. Selections from the works of Plato, Aristotle, Locke, Rousseau, Newman and Dewey, as well as contemporary critics like Scheffler, Bruner, Conant, Bell, Goodman, and McLuhan. Not open to freshmen. PROFESSOR BRENNAN. M W F 1:10.
- 85. Philosophy of Language.** [5]
A systematic consideration of such problems as: the possibility of giving a general characterization of language, the relation of syntactic and semantic systems to natural languages, intentional and causal theories of meaning, analysis of speech acts. Prerequisite: Course 1 or 5 or permission of the instructor. PROFESSOR LARSON. M W F 2:10.
- 87-88. Senior Seminar.** [0]
An intensive study of selected philosophical classics. Discussion, oral reports and term papers. Required of all majors in their senior year. Autumn Term: PROFESSOR MOTHERSILL. W 3:10-5:00. Spring Term: PROFESSOR LARSON. W 3:10-5:00. Conference hours to be arranged.

PHYSICAL EDUCATION

ASSISTANT PROFESSOR: MARION R. PHILIPS (Chairman; 209 Barnard Hall)

ASSOCIATES: SANDRA GENTER, EDITH G. MASON, JEANETTE S. ROOSEVELT

INSTRUCTORS: GAY DELANGHE,,

The program is organized and administered by the Department of Physical Education in cooperation with the Medical Department and the Recreation and Athletic Association. It is designed to provide the students with knowledge, skills, habits, and attitudes concerning health, physical activity, and recreation.

The Faculty requires the completion of six semesters of physical education from the time of admission as freshmen, four semesters from the time of admission as sophomores, and two semesters from the time of admission as juniors. Students are not recommended for the degree if they fail to fulfill this requirement.

Medical examinations and posture analysis: Two complete medical examinations by the College Physician are required of all students during the four years. One complete posture examination is required by the Department of Physical Education upon entrance. Subsequent posture examinations will be given whenever indicated. The results of these examinations are expressed in terms of a health and activity grade which determines the program best suited to the individual.

Freshman requirement: First semester: Three hours per week on different days. Two of these hours are the prescribed freshman course.

Section I	M W 12	Section V	Tu Th 11
Section II	M W 1	Section VI	Tu Th 2
Section III	M W 2	Section VII	Tu Th 3
Section IV	M W 3		

The third hour is elective and is usually assigned to a Friday hour.
Second semester: Two hours per week on different days.

Sophomore and Junior requirement: Two hours per week on different days.

Registration: Held simultaneously with registration for academic courses. See College Calendar for specific dates, page 5. Students who fail to register for physical education by the close of the registration period are subject to the fine for late registration.

Exception: Registration for Autumn Term indoor season and Spring Term outdoor season is held separately prior to the beginning of these two seasons of activities.

Program of activities: Two sessions each term: autumn-winter; winter-spring.

The program is posted on the Physical Education bulletin board two weeks prior to the registration dates.

Activities offered each semester: archery, badminton, basketball, body conditioning, bowling, corrective exercises, diving, fencing, folk dance, golf, Israeli dance, modern dance, movement education, relaxation, swimming—all levels and speed swimming, synchronized swimming, Red Cross lifesaving, water safety instructor's course—tennis, and volleyball.

BARNARD COLLEGE

Most activities are offered as full-semester courses.

During the autumn and spring seasons, outdoor tennis, golf and archery are offered.

Greek Games—athletics and dance are scheduled for the Spring Term only.

In all of these activities students are advised to register according to their skill level; i.e., beginning, intermediate, or advanced.

The Physical Education Handbook explains the complete offerings of the department.

Prescribed costume: Students are required to wear the regulation costumes indicated for the various activities. Approximate cost is \$22.

PHYSICS

PROFESSORS: HENRY A. BOORSE (Chairman and Dean of the Faculty; 129 Milbank Hall), POLYKARP KUSCH

ASSISTANT PROFESSOR:

ASSISTANTS:,

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: SAMUEL DEVONS, ¹HENRY M. FOLEY, WILLIAM W. HAVENS, JR., LEON M. LEDERMAN, ROBERT NOVICK, JAMES RAINWATER

ASSOCIATE PROFESSORS: PAOLO FRANZINI, SVEN HARTMANN

ASSISTANT PROFESSOR: CHARLES BALTAY

ADJUNCT PROFESSOR: ALFRED J. REDFIELD

A student intending to major in physics should begin her courses in the freshman year, starting with Physics C1006y, C1007x, C1009x, C1008y, C1010y. In special cases students who have begun with Physics 3–4 may continue as physics majors with a program to be worked out by the department. The first course for majors, C1006y, **is given in the spring**, to enable the student to complete the first term of the calculus sequence before beginning to study physics. Other courses to be taken subsequently by physics majors are arranged individually with the department; these should include four terms of the calculus sequence, or the equivalent, and one year of chemistry, though, in special cases, astronomy or biology may be substituted. The major examination consists of the Graduate Record Examination in physics and a one-hour oral examination.

The best opportunities for women in the field of physics are open to those with graduate training. Financial assistance is available to qualified graduate students in the form of fellowships, and teaching and research assistantships, offered by graduate schools throughout the country. For students both with and without graduate training many opportunities exist in laboratories operated by the federal government, e.g., by the Departments of the Navy, Air Force, and Army, the Atomic Energy Commission, the National Aeronautics and Space Administration, and the Public Health Service; in laboratories operated by state and local governments; and in laboratories operated by many industrial firms and research institutes. In particular, medical physics constitutes an important and growing field of specialization, while teaching in the public and private school systems offers challenging positions for those interested in education and public service.

C1001x, C1002y. **Elementary Physics.**

An introductory treatment of crucial experiments and theories of physics: particle mechanics; heat and kinetic theory of gases; electromagnetism; wave motion; atomic spectra and the Bohr theory of the hydrogen atom; nuclear reactions; elementary particles. A terminal course for liberal arts students having no need for further scientific or professional training in physics. Prerequisite: high school mathematics through intermediate algebra. This course is not intended to fulfill the physics requirement for admission to medical school. Credit is not given for both Physics C1001–C1002 and Physics C1006, C1007, C1008. Registration for laboratory section is optional and will be limited to the capacity of the laboratory. Tu Th 11–12:15. Discussion: 1 hour. Laboratory: hours to be arranged after first class meeting.

¹ On leave.

3-4. General Physics.

[7]

Autumn Term: Mechanics, heat, and optics. Spring Term: Electricity, magnetism, and modern physics. PROFESSOR and assistants. Lec. Tu Th 10:35-11:50. Three hours of laboratory and one recitation hour, to be arranged at the first meeting of the class. Laboratory is required of all students wishing to receive credit for the course.

C1006y. General Physics, I. Mechanics and Heat.

Fundamental laws of mechanics: kinematics; dynamics; work, energy, heat and thermodynamics. Prerequisite: Calculus I or the equivalent. Parallel: Calculus II or the equivalent. PROFESSOR BALTAY. Lec. M W F 9. Problem section: two consecutive hours to be arranged.

C1007x. General Physics, II. Electricity and Magnetism.

Electrostatics; direct currents; electromagnetism; alternating currents; wave motion. Prerequisite: Physics C1006. Parallel: Physics C1009 and Calculus III or the equivalent. PROFESSOR HARTMANN. Lec. and recit. M W F 9.

C1008y. General Physics, III. Light and Atomic Physics.

Lenses and optical systems, interference and diffraction of light, atomic structure and spectra, nuclear phenomena, elementary particles. Prerequisite: Physics C1007. Parallel: Physics C1010 and Calculus IV or their equivalent. PROFESSOR LEDERMAN. Lec. Tu Th 10. Recit. One hour to be arranged after the first meeting.

C1009x, C1010y. Physical Laboratory.

Selected quantitative experiments in mechanics, heat, electricity, optics, and atomic and nuclear physics. Prerequisite: Physics C1006. Parallel: Physics C1007-C1008 or C1107-C1108. PROFESSOR Three consecutive hours of laboratory to be arranged after the first lecture in Physics C1007 and C1008 or C1107-C1108.

W3003x. Mechanics.

Newtonian mechanics; conservative forces and potentials; oscillations; central forces. Prerequisite: general physics and integral calculus. PROFESSOR LEDERMAN. M W F 10.

W3007x, W3008y. Theory of Electricity and Magnetism.

A discussion of the phenomena of electrostatics, current flow, and electromagnetism, and the description of these phenomena in mathematical terms. The treatment is directed toward the formulation of Maxwell's equations and includes some application of general principles to phenomena associated with lumped-impedance circuits, transmission lines and plane electromagnetic waves. Prerequisite: an introductory course in electricity and magnetism (Physics C1007 is equivalent) and differential and integral calculus. PROFESSOR KUSCH. Lec. Tu Th 8:35-9:50 a.m.

W3072y. Seminar in Current Research Problems.

A detailed study of a selected field of active research in physics. The motivation, techniques, and results obtained to the present, as well as the difficulties and unsolved problems. Prerequisite: Permission of the department representative. Th 4:10-5:25.

W3081x, W3082y. Intermediate Laboratory Work.

Experiments are available in geometrical and physical optics, vacuum tubes and their circuits, atomic physics, and nuclear physics. An individual program of experiments is arranged for each student in accordance with her interests and

previous experience. Immediately after registration and not later than the end of the second day after the beginning of classes, registrants should consult the staff member in charge about assignment to a laboratory section and the schedule of experiments to be performed. PROFESSOR HAYNER and staff. One four-hour laboratory period weekly. Hours to be arranged by the instructor. Laboratory sections: M Tu W F 1:10–5; Th 6:30–10:30 p.m.

GRADUATE COURSES

For further information, see the Announcement of the Graduate Faculties.

G4003x. Lagrangian Mechanics.

Generalized coordinates; Lagrange's and Hamilton's equations with applications including rigid bodies. Normal coordinate treatment of coupled systems. Prerequisites: integral calculus and differential equations and Course W3003 or equivalent. PROFESSOR NOVICK. Tu Th 2:40–3 55. Problem session optional; hours to be arranged.

G4009y. Light.

Physical and geometrical optics. Prerequisite: general physics and integral calculus. PROFESSOR RAINWATER. M W 4:10–5:25.

G4013x. Thermodynamics and Elementary Statistical Mechanics.

General principles of thermodynamics; the two fundamental laws; entropy, free energy; thermodynamic potentials. The Maxwell-Boltzmann, Fermi-Dirac, and Einstein-Bose distributions. The relation of thermodynamics to statistical mechanics. Prerequisite: Physics W3003 and W3007; parallel, Physics G4015. PROFESSOR REDFIELD. M W F 11.

G4015x, G4016y. Atomic Physics and Introductory Quantum Mechanics.

Spectroscopic and other phenomena which form the experimental basis of modern atomic physics. The interpretation of atomic structures and radiation phenomena in terms of the quantum theory. Elementary wave mechanics is developed and applied to simple atomic structures and to potential well and barrier problems. Atoms in applied fields and the interactions in many electron atoms are treated by perturbation theory. The theory of spin and angular momentum. Prerequisite: Physics C1006, C1007, C1008, or their equivalents, and two additional terms of course work in intermediate or advanced physics. PROFESSOR M W F 9. Problem session optional; hours to be arranged.

G4040y. Nuclear Physics.

An introductory course in nuclear physics. General properties of nuclei, the systematics of stable nuclei, the two-body problem at low energies and nuclear forces, alpha radioactivity, beta decay, emission of electromagnetic radiation and selection rules, nuclear shell structure, phenomena associated with the passage of nuclear radiations through matter and methods of detection, high-energy accelerators, nuclear reactions and artificial radioactivity, neutrons and nuclear fission, properties and interaction of mesons. Prerequisite: Physics G4015 or the equivalent. PROFESSOR FRANZINI. Tu Th 11–12:15.

G6014y. Kinetic Theory and Statistical Mechanics.

Boltzmann gas theory and the approach to equilibrium studied via the Boltzmann equation. Transport phenomena in liquids and solids; irreversible thermodynamics and the Onsager reciprocal relationships; Brownian motion, fluctuation and noise phenomena. Prerequisite: Physics G4003 and G4013 or their equivalents. M W 2:10–3:25.

PSYCHOLOGY

PROFESSOR: RICHARD P. YOUTZ (Chairman; 302C Milbank Hall)

ASSOCIATE PROFESSOR: BARBARA S. SCHMITTER

ASSISTANT PROFESSORS: EDWARD S. COBB, BARBARA MATES, THOMAS BIDDLE PERERA

ADJUNCT ASSISTANT PROFESSOR: RUTH L. RUTSCHMANN

LECTURERS: ALVIN L. ATKINS, E. BELVIN WILLIAMS

ASSISTANTS: CORNELIA BRUNNER, NAOMI FONER, DOUGLAS FREUNDLICH, ROBERT KIRSCH, MARCIA ROSSER, MARJORIE SCHULTE, SANDRA STINGLE

A major in psychology: The student majoring in psychology studies the basic principles, methods, and findings of psychology and is introduced to their most important applications.

The groupings of courses given below are arranged in accordance with varying interests; the student should select one of the plans (a), (b), (c), or (d). In addition to the offerings listed in this announcement, advanced senior students with special interests may take appropriate courses in graduate school.

(a) General major: A student completing this major will have a good general background for activities in psychology or related fields, such as education, business, school psychology, psychometrics, personnel and social work, and similar areas. The major may be completed by fulfilling the following requirements:

Psychology: Courses 1; 5; 8; 9; 12; one, or both, of 57 and 68; and other courses selected in consultation with the department to complete the required 8 courses.

Other fields: One course in philosophy, or Anthropology 1-2; a one-year laboratory course in biology, physics, or chemistry.

(b) Students who plan to obtain postgraduate professional training in clinical psychology, school psychology, vocational or rehabilitation counseling, or educational guidance should, in addition to the courses required for the general major, include Courses 16; 27, and at least two of the following: Courses 20; 21; 25; 38.

(c) Students interested in professional work in business or personnel may modify the requirements of the general major so that the required work in other fields is as follows: Economics 1, 2; 17, 18; and F3451y.

(d) Students who wish to take postgraduate work in experimental psychology should add the following to the requirements for the general major: Courses 57 and 68. In other fields work should include: full-year laboratory courses in two of the following: biology, physics, or chemistry; mathematics through Course 16.

The major examination: This consists of sections on: (1) general information and integration (three hours); (2) experimental design and techniques (one hour); and (3) areas of special interest (two hours). Students fulfilling any one of the four plans will have completed preparation for the major examination.

LABORATORY SCIENCE REQUIREMENT: The degree requirement in laboratory science may be satisfied by taking any two of the following courses: 5; 8; 12; 17; 27; 30.

- 1x (or 1y.) Introduction to Psychology.** [11]
 An introduction to the chief facts, principles, and problems of human behavior, through systematic study of a text, lectures, exercises, brief participation in a current investigation, and reading in special fields. Prerequisite for all other courses. PROFESSORS COBB, MATES, PERERA, RUTSCHMANN, and YOUTZ.
- | Autumn Term | Spring Term |
|-------------------------------|-------------------------------|
| Section I M W F 9. | Section I M W F 9. |
| Section II M W F 10. | Section II M W F 10. |
| Section III M W F 11. | Section III M W F 11. |
| Section IV Tu Th 10:35–11:50. | Section IV Tu Th 10:35–11:50. |
- 5. Psychology of Learning.** [8]
 The basic methods, results, and concepts in the experimental analysis of learning. The laboratory work consists of a series of individual experiments, several group experiments, and the preparation of systematic reports of results. Prerequisite: Course 1 or the equivalent. PROFESSOR COBB and assistant. Lec. Tu Th 11. Lab. (1 hour lecture, 2 hours projects) M 1:10–4, Th 2:10–5, F 1:10–4.
- 8. Perception.** [8]
 An introduction to the problems, methods and results of studies in perceptual behavior. The literature will be surveyed; key experiments will be discussed in detail. Problems of definition and experimental method will be emphasized. In the laboratory students will conduct a series of typical experiments and will prepare systematic reports of their results. Prerequisite: Course 1 or the equivalent. Not open to freshmen. PROFESSOR PERERA and assistant. Lec. Tu Th 11. Lab. (1 hour lecture, 2 hours projects) M 1:10–4, Th 2:10–5.
- 9. Statistical Design.** [2]
 An introduction to statistics and experimental design in psychology and allied subjects. Descriptive statistics, probability, and elementary procedures of statistical inference will be treated. The laboratory will provide students with empirical demonstrations of theorems used, but not mathematically derived, in the lectures, together with practice in the application of elementary statistical methods. Prerequisite: Course 1 or the equivalent. PROFESSOR WILLIAMS and assistant. Lec. M W F 10. Lab. (2 hours) M 1:10–3, Tu 2:10–4.
- 12. Psychological Measurement.** [2]
 Introduction to test theory, including concepts of item construction, standardization, reliability, validity, and motivation. Emphasis is on design and research related to major categories of current tests. Laboratory projects will be concerned with constructing and evaluating test items under experimental conditions, with assessing various methods of test administration, and with the quantitative procedures necessary for such evaluations and assessments. Prerequisite: Course 1 and one course in statistics. PROFESSOR SCHMITTER and assistant. Lec. M W 10. Lab. (1 hour lecture, 2 hours projects) W 2:10–5, Th 2:10–5.
- 16. Theories of Learning.** [6]
 A comparative study of the major scientific accounts of the learning process. The course stresses exposition and evaluation of each theory in terms of structure, scope, research, and potential applications, and in relation to other forms of psychological theory. Prerequisite: Course 1, 5, and one other course in psychology. PROFESSOR COBB. Tu Th 9:10–10:25.

- 17. Physiological Psychology.** [4]
An introduction to the study of the relationships between bodily processes and behavior. Emphasis is placed upon the basic anatomy and physiology of sensory and motor functions, motivation, emotion, learning, and behavior disorders. The laboratory consists of individual and group experiments in these areas of study, and exercises on the anatomy of sense organs and the brain. Prerequisite: Course 1. PROFESSOR PERERA and assistant. Lec. M W 1:10-2. Lab. (1 hour lecture, 2 hours projects) Tu 2:10-5, W 2:10-5.
- 20. Language and Speech Development and Disorders.** [4]
The psychological study of language and speech. Consideration of language and speech perception, cognition, and production, normal development and pathology. Methods of experimental study, various theories, and problems are treated. The laboratory consists of relevant experiments and projects, with systematic reports. Prerequisite: Course 1 or the equivalent. PROFESSOR MATES and assistant. Lec. M W 1:10. Lab. (1 hour lecture, 2 hours projects) Tu 2:10-5, W 2:10-5.
- 21. Abnormal Psychology.** [4]
The field of psychopathology, history, more common forms of mental inadequacy and disturbance and their psychological interpretation, including principles of mental hygiene and psychotherapy. Each class takes two trips to institutions for demonstrations of psychoses and deficiencies. Open to juniors and seniors who have had Course 1. PROFESSOR YOUTZ. M W 1:10 and consultation in connection with readings for the third point.
- [24. Applications of Psychological Techniques.** PROFESSOR MATES.
Not given in 1968-69.]
- 25. Psychology of Personality.** [2]
Contemporary theories of the development and organization of personality and their relation to other forms of psychological theory. Points of view discussed include those of Freud, Adler, Jung, neo-Freudians such as Horney and Sullivan, and others, including Murray and Kelly. Consideration is given to clinical applications of the theories. Prerequisite: Course 1 or the equivalent. PROFESSOR SCHMITTER. M W F 10.
- 27. Developmental Psychology.** [3]
Comparative and experimental analysis of transitions from simple to complex behavior characteristics of individual and evolutionary development. Major emphasis on human ontogeny from conception to maturity. The laboratory includes experiments and demonstrations of (a) genetic and environmental factors in behavior development of animals and (b) comparative studies of sensori-motor, intellectual, linguistic, and social development of children. Prerequisite: Course 1 or the equivalent. PROFESSOR MATES and assistant. Lec. M W 11. Lab. (1 hour lecture, 2 hours projects) Tu 2:10-5, W 1:10-4.
- 30. Psychology of Thinking.** [3]
Survey of contemporary experimental approaches to the understanding of concept formation and problem-solving behavior, derived from learning theory, psycho-linguistics, logic, and information theory. The laboratory will consist of experiments and demonstrations of thinking behavior in animals, children, and adults. Prerequisite: Course 5. PROFESSOR COBB and assistant. Lec. M W 11. Lab. (1 hour lecture, 2 hours projects) Tu 2:10-5, W 1:10-4.

- 38. Social Psychology.** [6]
 An introduction to the study of social behavior. Among the topics considered are social learning, interaction, group behavior, and verbal behavior. Experimental contributions to the understanding of social phenomena are emphasized. Prerequisite: Course 1. PROFESSOR ATKINS. Tu Th 9:10–10:25, and conference hour in connection with a project or paper.
- 48x (or 48y). Individual Projects.** [0]
 Research projects will be planned in consultation with members of the department. Open to majors who have had Courses 5 and 8, on written permission of the member of the department who supervises the project. MEMBERS OF THE DEPARTMENT. Hours to be arranged.
- 57. Systems of Psychology.** [8]
 A comparative summary of the more influential schools and points of view in psychology, past and present. Each student prepares a paper reporting on an important person, institution, or subject matter area. Prerequisite: Courses 5 and 8 or the equivalent. PROFESSOR YOUTZ. Tu Th 11.
- 68. Case Histories in Experimental Design.** [8]
 Discussion of stages in the experimental development of psychological concepts. Nonstatistical analysis of procedures and justifiable conclusions at stages of: speculation, measurement, observed relation, experiment, and theory construction. Application to articles in current journals, both experimental and clinical. Each student will choose an area of interest and prepare a paper reporting on its origins and present status. Prerequisite: Courses 5 and 8 or the equivalent. PROFESSOR YOUTZ. Tu Th 11.

RELIGION

PROFESSORS: THEODOR H. GASTER (Chairman; 27 Milbank Hall), HAROLD STAHER
ASSISTANT PROFESSOR: JOHN B. SNOOK

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: JOSEPH L. BLAU, J. A. MARTIN, JR.
ADJUNCT PROFESSOR: JOHN MEYENDORFF
ADJUNCT ASSOCIATE PROFESSOR: DAVID WEISS
ASSISTANT PROFESSORS: J. STANLEY BARLOW, ROBERT F. OLSON, PETER A. PAR-
DUE, RONALD STONE
INSTRUCTORS: HENRY BOOKOUT, JR., CARL HESTER

The purpose of the program is to introduce the field of religion, to present the documents, history and thought of the great religious traditions of East and West, and to consider their influence upon contemporary questions.

The program of study for a major in religion is to be planned in consultation with members of the department by the end of the sophomore year. The student chooses one of two sequences of study: A. Western Religion and the Theory and Functions of Religion; B. Eastern Religion and the Theory and Functions of Religion.

Courses: Normally ten semester courses including V1101, V1102 and two semesters of seminar work. Students specializing in Sequence A should include a minimum of one semester in Eastern Religion and one semester in the Theory and Functions of Religion. Students specializing in Sequence B should include a minimum of one semester in Western Religion and one semester in the Theory and Functions of Religion. Students are expected to take four semesters of course-work in two related departments. All course selections must be made in conjunction with the major adviser. Students considering graduate work are strongly advised to develop a reading knowledge of such languages as Hebrew, Greek, Latin, and Chinese, depending on the area of concentration.

Majors in religion will be required in their last year to write a senior essay in conjunction either with their seminars or with Religion 35, 36. Both the subject matter as well as the development of the senior essay will be subject to departmental approval and supervision.

V1101x, V1102y (or V1102x, V1101y). Introduction to the Study of Religion.

The phenomenology of religious experience and the historical forms of religious life. A study of the presuppositions, data and documents of the religions of East and West. Autumn Term: The ancient religions of the Near East and Greece; major themes in Judaism and Christianity. Spring Term: Recurrent themes in religions of the East. MEMBERS OF THE DEPARTMENT.

Section I M W 2:10-3:25.
Section II Tu Th 10:35-11:50. (Primarily for Barnard students)
Section III M W 5:40-6:55.
Section IV Tu Th 9-10:15.
Section V Tu Th 2:10-3:25.
Section VI M W F 9. (Primarily for Barnard students)
Section VII M W 11:00-12:15 (V1102x, V1101y). For those wishing to begin the course with the study of Eastern religions.

WESTERN RELIGION

V1001x & y. Major Topics in the Study of Religion.

A one-semester introduction to the theory and practice of religion, East and West, emphasizing such topics as myth and ritual, reason and revelation, law and community, mysticism and radical theology. PROFESSORS GASTER and MARTIN.

Section I Tu Th 10:35–11:50 (both terms). (Primarily for Barnard students)

Section II Tu Th 10:35–11:50 (Spring Term only).

V3201x. Introduction to the Old Testament.

Hebrew religion. Its beginning and nature. Ancient myths, stories, and records. Moses: Israel as the covenant people. The prophets. The exile and development of Judaism. PROFESSOR GASTER and MR. BOOKOUT.

Section I Tu Th 9:10–10:25. (Primarily for Barnard students)

Section II Tu Th 6:10–7:25 p.m.

V3202y. Introduction to the New Testament.

The Graeco-Roman world and Jewish background of the first century. The Gospels. The letters of St. Paul. The Book of Acts. The spread of Christianity. MR. BOOKOUT and MR. HESTER.

Section I M W F 2:10–3. (Primarily for Barnard students)

Section II Tu Th 5:40–6:55 p.m.

W3214y. Introduction to Talmudic and Geonic Literature.

Documents in the history of post-Biblical literature. Selections from Mishna, Mekhilta, Midrash, Gemara, and Geonic Literature. PROFESSOR WEISS. M W 1:10–2:25.

[14x. Early Christianity in the Light of the Classical Heritage,

Not given in 1968–69.]

[15, 16. History of Religious Thought in the West. PROFESSOR STAHLER.

Not given in 1968–69.]

17, 18. Western Religious Institutions.**[7]**

The characteristic religious institutions of the Western world, studied in terms of their origins in the ancient Near East, their subsequent development, and their relevance to the central ideas and symbols of Western culture. The Autumn Term will cover the period to the eve of the Reformation; the Spring Term will continue to the contemporary period. PROFESSOR SNOOK, Tu Th 10:35–11:50.

W3242y. Eastern Christian Thought.

The development of the religious mind in the Christian East since the time of the Greek Fathers. The Byzantine Church: institutions, theology, monasticism, religious art. The Byzantine spiritual and intellectual legacy in the Balkans and the Middle East. Russian religious thought. PROFESSOR MEYENDORFF. Tu 3:40–6:30.

[W3234y. Catholic Thought after Trent. PROFESSOR ULANOV.

Not given in 1968–69.]

[G4207x, G4208y. History of Judaism. PROFESSOR BLAU.

Not given in 1968–69.]

31. Ancient Near Eastern Religions. [9]

A comprehensive introduction to the religious ideas, practices, and writings of the Egyptians, Mesopotamians, Hittites, Canaanites, and Israelites. The texts are read in translation. Prerequisite: Course V1101 or written permission of a departmental representative. PROFESSOR GASTER. Tu Th 2:10-3:25.

EASTERN RELIGION

W3251y. History of Hinduism.

The relationship between Hindu religious values and Indian social institutions. Problems of defining "Hinduism" within the wider range of India's cultural life, and its development in dialogue with other religions and ideologies in its environment. Prerequisite: Course V1102 or permission of the instructor. PROFESSOR PARDUE. Tu Th 2:10-3:25.

W3252x. History of Buddhism.

Change and continuity in the development of Buddhist thought and institutions during the expansion of Buddhism from India to Tibet, China, and Japan. Prerequisite: Course V1102 or permission of the instructor. PROFESSOR OLSON. Tu Th 2:10-3:25.

W3253y. Chinese and Japanese Religious Thought.

A study of both native religious and philosophical movements and Buddhist developments in China and Japan. PROFESSOR OLSON. Tu Th 11-12:15.

THEORY AND FUNCTIONS OF RELIGION

25. Religion in Contemporary Society. [9]

An introduction to the theological and intellectual background of religion in contemporary America, with special emphasis upon sociological, historical, and church-state considerations. Term paper optional. Open to all except freshmen. PROFESSOR SNOOK. Tu Th 2:10-3:25.

26. Religion in Contemporary Culture. [5]

Religion, its meaning and expression in contemporary culture, with special emphasis upon recent theological, literary, and philosophical trends which affect institutional and personal religious practices and attitudes. Term paper optional. Open to all except freshmen. PROFESSOR STAHLER. M 1:10-4.

Religion-Sociology G4400y. Sociology of Religion.

Major theoretical approaches to the relationship between religious values and social institutions in readings from Durkheim, Pareto, Malinowski, Marx, and Max Weber. Problems in comparative evaluation of religious systems and their social and cultural consequences. Prerequisite: junior or senior standing and work in either religion or sociology. PROFESSOR PARDUE. W 2:10-4.

Anthropology V3042y. Primitive Religion.

Ideological systems of simple or preindustrial cultures. Relations between religion and other aspects of culture. Prerequisite: an introductory anthropology course or permission of the instructor. PROFESSOR VINCENT. Tu Th 10:35-11:50.

[G4401y. Role of Language in Religious Existentialism. PROFESSOR STAHLER.
Not given in 1968-69.]

SEMINARS AND READING COURSES

[G4411x. Methodology in the Study of Religion. PROFESSOR MARTIN.
Not given in 1968-69.]

W3502y. Seminar on Methodology in the Study of Religion.

The methodological concepts involved implicitly and explicitly in various approaches to the study of religion; the implications and consequences of these concepts for inquiry into the field of religion. Students who are not religion majors must obtain the permission of the department. PROFESSOR SNOOK and associates. W 3:10-5.

W3503x, W3504y. Seminar: Western Religious Thought.

Autumn Term: Mysticism. An examination of selected mystical literature East and West; theistic and nontheistic including a review and critique of psychedelic claims. Spring Term: Dominant themes in Western religion. The idea of God, cult and Worship, myth, magic, theories of personality. Special attention will be paid to contrasts between Western and Eastern ideas and patterns. Either term may be taken separately. Autumn Term: PROFESSOR STAHLER. M 2:10-4. Spring Term: PROFESSOR GASTER. Tu 3:10-5.

[W3551-W3552y. Seminar: Eastern Religious Thought. PROFESSOR OLSON.
Not given in 1968-69.]

35, 36. Guided Reading and Research.

[0]

A program of study designed to give outstanding majors in religion an opportunity to pursue independently a subject of their choosing. A written essay is required of students taking this program. Consultation periods to be arranged with adviser. MEMBERS OF THE DEPARTMENT.

RUSSIAN

ASSOCIATE PROFESSOR: RICHARD F. GUSTAFSON (Chairman; 23 Milbank Hall)

INSTRUCTOR: LYDIA KESICH

ASSOCIATES: ANATOL K. SAPRONOW, ZOYA TRIFUNOVICH,
MARIANNA GREENE (Part-time), NATHALIE S. NABOKOFF (Part-time)

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSOR: WILLIAM E. HARKINS

ASSOCIATE PROFESSORS: ROBERT L. BELKNAP, ROBERT A. MAGUIRE

INSTRUCTOR: MARINA LEDKOVSKY, JOHN MALMSTAD

ASSOCIATE: ROSE RASKIN

The Russian Department offers courses in both language and literature. Besides a full four-year sequence in language work, there are specialized courses in major Russian authors and important periods in Russian literature. Students should consult Mr. Gustafson in choosing language courses beyond the second year. For those who know no Russian, the department also gives a series of courses in Russian literature taught in English.

The major in Russian at Barnard is a liberal arts program designed to help the student obtain reasonable fluency in the spoken and written language, a reading command of Russian adequate for interpreting literary texts, and a comprehensive knowledge of Russian literature, especially of the nineteenth and twentieth centuries. Students will be encouraged to take one year of Russian history and to select relevant courses in philosophy, art, music, and other literatures. The requisites to the major, in most cases to be completed before the junior year, are Russian 4 (or its equivalent) and Russian V1225x, V1226y. The minimum for the major is 8 courses in language and literature. No courses with readings exclusively in English may be included in the minimal major program. Normally majors are required to take Russian V3333x, V3334y; V3595x, V3596y; and two fourth-year language courses. A senior essay is required as part of the senior seminar.

FOREIGN LANGUAGE REQUIREMENT FOR THE DEGREE: All students must take a placement examination before entrance. This examination tests the student's knowledge of grammar, her comprehension of written and spoken Russian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others must complete a full third-year course in language or literature, or one semester of such a course with a minimum grade of B+.

LANGUAGE COURSES

1-2. Elementary Full-Year Course.

[16]

Grammar, reading, composition. Oral practice in small groups. Language analysis: PROFESSOR GUSTAFSON and DR. KESICH. Section I M W F 10. Section II M W F 12:10. Oral practice: MRS. GREENE, MRS. NABOKOFF, and MR. SAPRONOW. M W F 9, M W F 11, M W F 1:10, M W F 2:10, M W F 3:10. Other hours to be arranged.

3-4. Intermediate Course.

[16]

Grammar review, composition, reading. Oral practice in small groups. Language laboratory work required. Prerequisite: Course 2 or the equivalent. Language analysis: MRS. TRIFUNOVICH. Section I (primarily for students new to Barnard) M W F 10. Section II (primarily for students from Course 2) M W F 12:10. Oral Practice: MRS. GREENE, MRS. NABOKOFF, and MR. SAPRONOW. M W 10, M W 11, Tu Th 9, Tu Th 10, Tu Th 11.

V3331x, V3332y. Readings in Russian Literature.

Emphasis on conversation and composition. Reading and discussion of selected texts from nineteenth- and twentieth-century Russian literature. Lectures, papers, and oral reports. Conducted entirely in Russian. Prerequisite: two years of Russian or the instructor's permission. MRS. LEDKOVSKY. M W F 1:10.

V3335x, V3336y. Advanced Language Course, Third Year.

Emphasis on problems of modern Russian usage and grammar. Designed to acquaint the student with various modes of the written and spoken language. Prerequisite: two years of Russian or the instructor's permission. MISS RASKIN. M W F 2:10. Oral practice sessions to be arranged.

V3443x, V3444y. Advanced Russian: Syntax and Style.

Autumn Term: Systematic study of problems in Russian syntax; written exercises, translations into Russian, and compositions. Spring Term: Discussion of different styles and levels of language, including word usage and idiomatic expressions; written exercises, analysis of texts, and compositions. Conducted entirely in Russian. The second term may be taken without the first. Prerequisite: three years of Russian or the instructor's permission. MRS. TRIFUNOVICH. M W F 2:10.

9, 10. Oral and Written Russian: Advanced Course.

[16]

Selected texts in philosophy, criticism, and literature of twentieth-century Russia are read to provide a context for discussion. Lectures and reports on music, architecture, and painting of the modern period. Frequent compositions. Conducted entirely in Russian. Recommended for students who wish to improve their active command of Russian. The second term may be taken without the first. Prerequisite: three years of Russian or the instructor's permission. MR. SAPRONOW. M W F 3:10.

LITERATURE COURSES

For nonmajors, courses marked thus § will count towards the general college requirement.

V1225x, V1226y. Survey of Russian Literature.

Literature from Pushkin through the modern period, with emphasis on the prose masterpieces of the nineteenth century. The second term may be taken without the first. A knowledge of Russian is not required. DR. MALMSTAD. M W F 11.

V1227x. Tolstoy and Dostoevsky.

Analysis of the major works of the two writers. A knowledge of Russian is not required. PROFESSOR HARKINS. M W F 12.

V1229x. Russian Drama and Theater.

A study of major plays and of the literary and theatrical doctrines and practices which underlay them. A knowledge of Russian is not required. PROFESSOR BELKNAP. Tu Th 11-12:15.

BARNARD COLLEGE

§V3333x, V3334y. Introduction to Russian Literature.

Emphasis on reading and literary analysis. Close study of representative works of Russian literature from Pushkin to the modern period. Conducted mainly in Russian. Examinations in English. Prerequisite: a grade of B— or better in Course 4 or the instructor's permission. MRS. LEDKOVSKY. M W F 10.

§V3461y. Pushkin.

A close study, in the original, of Pushkin's narrative, dramatic, and lyrical verse. Some parallel readings from Pushkin's contemporaries. Prerequisite: three years of Russian or the instructor's permission. PROFESSOR GUSTAFSON. M W F 1:10.

[§V3462x. Gogol. PROFESSOR MAGUIRE. Not given in 1968–69. To be offered in 1969–70.]

§V3463x. Tolstoy.

A close reading, in the original, of Tolstoy's shorter fiction. Some attention will be paid to the development of his moral and aesthetic ideas. Prerequisite: three years of Russian or the instructor's permission. PROFESSOR GUSTAFSON. M W F 1:10.

[§V3464y. Dostoevsky. PROFESSOR GREGG. Not given in 1968–69. To be offered in 1969–70.]

§V3467y. Twentieth-Century Writers.

A study of three major authors chosen from among Bunin, Babel, Olesha, Pasternak, and one contemporary. Prerequisite: three years of Russian or the instructor's permission. PROFESSOR MAGUIRE. Tu Th 1:10–2:25.

§W3867x. Readings in Russian Poetry.

Extensive readings in Russian poetry from the second half of the eighteenth century to the present. Conducted partly in Russian. Prerequisite: three years of Russian or the instructor's permission. MISS RASKIN. M F 4:10–5:25.

V3595x, V3596y. Seminar.

Autumn Term: Readings and short papers on a specialized topic in Russian literature. Spring Term: Supervised individual research, culminating in a critical paper. The second term may be taken without the first. Prerequisite: senior standing and the instructor's permission. V3595x: PROFESSOR MAGUIRE. V3596y: PROFESSOR BELKNAP. Th 3:10–5:00.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified majors with the consent of the instructor and the major adviser. A description of these courses will be found in the Announcement of the Graduate Faculties.

G4032x. Russian Literature from 1880 to 1920. PROFESSOR MAGUIRE. Tu 3:10–5:00.

G4103x. History of the Russian Language: Introductory Course.

PROFESSOR UNBEGAUN. F 2:10–4:00.

G4461x. Chekhov and the Short Story. PROFESSOR MATHEWSON. Tu Th 11.

SOCIOLOGY

PROFESSORS: BERNARD BARBER (Chairman; 404 Lehman Hall), MIRRA KOMAROVSKY

ASSOCIATE PROFESSOR: GLADYS MEYER

ASSISTANT PROFESSOR: ROBERTA TOOLE ASH

LECTURER:

Sociology introduces students to the scientific study of society. The basic problems common to all human societies and the varied institutional solutions to these problems make up one large area of sociological interest; hence the sociological study of the family, social class, economic and political institutions, religion, science, ideology, etc. The study of rural and urban communities, human relations in groups, social structure and personality are other areas of sociological interest. So also is the understanding of social change. Sociology is concerned not only with the normal functioning of social institutions but also with social problems such as racial and minority problems, industrial conflict, crime, and other areas of social disorganization. In studying these subjects, materials about American society are given primary emphasis. However, comparative materials from other societies, preliterate and more highly developed, are extensively used. Finally, sociology seeks to acquaint students with its methods of investigation, from which students can learn important facts about scientific method in general. A student majoring in sociology will be required to take: Course 1, 2 and other sociology courses to be selected in consultation with the major adviser. Courses 32; 33; 34; 39; 40; 41, 42; 43, 44 are strongly recommended.

Major examination: A three-hour written examination in addition to the Graduate Record Examination.

1, 2. Introduction to Sociology.

An introduction to sociological analysis with emphasis on contemporary American society. Autumn Term: The structure of society. The family and the other major social institutions; class stratification; social groups; ecology of modern communities. Spring Term: Social change and social problems. Population, race and group conflict, social disorganization and crime. Problems of social reorganization. Open to freshmen. Course 1 is a prerequisite to Course 2. PROFESSORS ASH, BARBER, KOMAROVSKY, and MEYER.

Section I M W F 10. (2)

Section III M W F 2:10. [5]

Section II M W F 11. (3)

Section IV Tu Th 9:10–10:25. [6]

1y. Introduction to Sociology.

Same as Course 1.

Section I Tu Th 9:10–10:25. [6]

Section II Tu Th 10:35–11:50. [7]

2x. Introduction to Sociology.

Same as Course 2.

Section I Tu Th 9:10–10:35. [6]

21. Poverty and the State.

[3]

Social and economic conditions which have led to tax-supported welfare programs. Problems of administration, personnel, and citizen pressure. Comparative study of philosophy, structure, and coverage in the U.S., England, and France. The role of the social worker in a public welfare setting. Open to juniors and seniors. Prerequisite: Course 1. Field work or a paper is required. PROFESSOR MEYER. M W 11.

22. Introduction to Social Work.

[3]

The growth of the profession. Intellectual influences which have shaped its development. The traditional fields of practice. The structure and function of voluntary agencies. Open to juniors and seniors. Prerequisite: two courses in social science other than history. Field work or a paper is required. PROFESSOR MEYER. M W 11.

32. The Family.

[2]

A study of the American family using comparative materials from other societies. The family cycle with special emphasis upon the marriage relationship. Ethnic and class differences. Implications of changing family patterns for other social institutions and for the individual. Prerequisite: Course 1, 2. PROFESSOR KOMAROVSKY. M W F 10.

33. The Community.

[4]

Analysis of community structures. The declining community; the developing community. Problems of power. Examination of classical and current community research. The relation of research to policy and planning. Prerequisite: Course 1, 2. PROFESSOR MEYER. M W F 1:10.

34. Ethnic and Minority and Intergroup Relations.

[4]

The composition and distribution of minority groups, particularly within the United States. The role of these groups in the structure of the community, their particular cultures, internal organization, and problems of individual adjustment. Prerequisite: Course 1, 2. PROFESSOR MEYER. M W F 1:10.

38. Special Readings.

[0]

Students will read selected classics and other books and monographs exemplifying important developments in contemporary sociology. Brief written assignments. Prerequisite: Course 1, 2. PROFESSOR KOMAROVSKY. Th 10:35-12:15.

39. Comparative Social Institutions.

[10]

The social institutions that exist in all societies; their different forms. Comparative materials from nonliterate, other civilized (China, India, medieval Europe), and contemporary (U.S., Soviet Russia, France, Britain) societies. Principles of institutional patterning and change. Prerequisite: Course 1, 2. PROFESSOR BARBER. M W F 3:10.

40. Social Stratification.

[10]

General theory of social stratification. Comparative materials from other civilized (China, India, medieval Europe) and contemporary (U.S., Soviet Russia, England, France) societies. Current processes and change emphasized. Prerequisite: Course 1, 2, or permission of the instructor. PROFESSOR BARBER. M W F 3:10.

- 41, 42. History of Sociological Theory.** [8]
The major contributions of Comte, Spencer, Sumner, Cooley, Durkheim, Simmel, Weber, Mannheim, Sorokin, Parsons, Merton, and other contemporary American sociologists. Prerequisite: Course 1, 2. PROFESSOR KOMAROVSKY. Tu 10:35–12:15.
- 43, 44. Methods of Sociological Research.** [5]
Various qualitative and quantitative methods of social research are presented both from a logical and a sociological point of view. Lectures, critical reading of studies in conjunction with field work exercises. Prerequisite: Course 1, 2. Course 43 is prerequisite for Course 44, except by special permission of the department. PROFESSOR ASH. M W F 2:10.
- [45. Social Structure and Personality.**
Not given in 1968–69.]
- 47. Social Movements.** [2]
Various types of social movements, their organization, ideologies and relationship to social change. Social-psychological bases of participation. Substantive materials drawn from historical sources and current developments in the United States. Prerequisite: Course 1, 2. PROFESSOR ASH. M W F 10.
- 97. Senior Seminar.** [0]
The City: Structures and problems of metropolitan social organization. An examination of recent research. Some comparative materials. Prerequisite: Course 1, 2. PROFESSOR MEYER. Tu 2:10–4.
- 87, 88. Individual Projects.** [0]
Individual study under supervision of members of the department. Open to senior majors with the permission of the instructor. PROFESSORS ASH, BARBER, KOMAROVSKY, and MEYER. Hours to be arranged.

COURSES IN OTHER DIVISIONS OF THE UNIVERSITY

The following Columbia College courses in areas not offered at Barnard College are open to qualified juniors and seniors:

- Sociology C3666x. Political Sociology.** PROFESSOR SILVER.
Sociology C3223y. Mass Communications. MR. HEADING.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified majors with the consent of the department and the major adviser. A description of these courses will be found in the Announcement of the Graduate Faculties. Among those suitable for Barnard students the following are recommended:

- G4051y. Social Change: Modernization.**
PROFESSOR WALLERSTEIN. Th 4:10–6.
- G4043x. The Social Structure of the United States.**
PROFESSOR BELL. M 4:10–6.
- G4003y. Social Change in Contemporary Japan.**
PROFESSOR PASSIN. W 2:10–4.
- [G8049x. Sociology of Knowledge.**
PROFESSOR BARBER. Not given in 1968–69.]

SPANISH

PROFESSORS: ¹EUGENIO FLORIT, MARGARITA UCELAY (Chairman; 17 Milbank Hall)

ASSISTANT PROFESSORS: MARIA DE ORTI, MIRELLA DE SERVODIDIO

INSTRUCTORS: LAMBERTO CANO, LUZ CASTAÑOS

VISITING PROFESSORS: LAURA R. DE GARCÍA-LORCA, JOSÉ OLIVIO JIMÉNEZ

A major in Spanish is designed to enable the student to understand, speak, and write the language with ease, have a general knowledge of the history and cultural development of Spain and the Spanish-American world, with a more profound knowledge of the literature and art of Spain and the Hispanic Republics. A student should concentrate at the same time either on a literary genre, whether it be poetry, the novel, or the theater; or a period, classical or modern.

A student majoring in Spanish will be required to take Courses 13, 14; 17, 18; 20; 23; 25, 26; 31, 32, and the senior seminar, (33). Courses 1-2; 3-4; 5, 6; 7, 8 and 9, 10 do not count toward the major requirement.

Other fields: The following courses are recommended: Anthropology V3029y; Classical Literature 32; Art History 75, 76; French 21-22; German 55; 56; Italian V3333x-V3334y; Philosophy 1; Religion V1101x. A major in Spanish must broaden her study of Spanish culture by relating it to other cultures which have influenced it or been influenced by it.

The major examination consists of a three-hour written examination on Spanish literature; a three-hour written examination on Hispanic civilization and Spanish-American literature; and a half-hour oral examination on literature and culture. All examinations are conducted in Spanish.

FOREIGN LANGUAGE REQUIREMENT FOR THE DEGREE: All new students who intend to satisfy the foreign language requirement in Spanish must take a placement examination before registration. The student will be tested in her knowledge of grammar and her ability to understand, speak, and write Spanish. Those who receive a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing Course 7, 8, or Course 7 with a minimum grade of B+.

LANGUAGE COURSES

1-2. Elementary Full-Year Course.

[16]

Grammar, reading, conversation. May not be taken parallel to elementary Italian. Laboratory work is required. PROFESSOR ORTI, MR. CANO, and MISS CASTAÑOS. Section I M Tu W Th F 9. Section II M Tu W Th F 11. Section III M Tu W Th F 2:10.

3, 4. Intermediate Course.

[16]

A rapid review of grammar and syntax, conversation, and reading, discussion and analysis of important works in Spanish and Spanish-American literatures. Monthly book reports on outside reading. MR. CANO and MISS CASTAÑOS. Section 1 M W F 10. Section II M W F 1:10.

5, 6. Advanced Course in Grammar and Composition.

[3]

Given for students who have had three years of high school Spanish. Emphasis on oral self-expression and written compositions on outstanding novels and poetry. Monthly book reports on outside reading. MR. CANO. M W F 11.

¹ On leave, Spring Term.

7, 8. Spanish through Literary Analysis.**[16]**

Readings in twentieth-century works as a basis for improving the comprehension of written and spoken Spanish. Special emphasis on syntax and translation. Weekly compositions. Prerequisite: Courses 3, 4 or 5, 6. PROFESSORS ORTI and SERVODIDIO, MISS CASTAÑOS. Section I M W F 11. Section II M W F 11. Section III M W F 1:10.

[9, 10. Intermediate Spanish Conversation. Not given in 1968–69.]**11, 12. Oral Spanish, Advanced Course.****[0]**

Discussion based on contemporary Hispanic writers and literary trends, and on Spanish painters; practice in the recitation of poetry and plays. Prerequisite: Courses 3, 4 or 5, 6, or permission of instructor. Two class hours and one conference. PROFESSOR UCELAY. M W 2:10.

LITERATURE COURSES¹

For nonmajors, courses marked thus § will count toward the general college requirement.

13y. The Culture of Spain.**[9]**

The history and culture of Spain. A study of the origins and evolution of Spanish character, tradition, and thought. The interrelationship of its history and arts and the scope of its contribution to Western culture. Lectures and monthly book reports. The use of audio-visual materials will be stressed. Prerequisite: Courses 3, 4, or 5, 6, or 7, 8. PROFESSOR GARCÍA-LORCA. Tu Th 2:10.

14x. Spanish-American Culture.**[9]**

The history and culture of Spanish America. A study of the origins and evolution of the Spanish-American character, tradition, and thought. The interrelationship of its history and arts. Lectures and monthly book reports. The use of audio-visual materials will be stressed. Prerequisite: Courses 3, 4, 5, 6, 7, 8. PROFESSOR FLORIT. Tu Th 2:10.

§15–16. Introduction to Spanish Literature.**[2]**

Lectures on the history of Spanish literature, reading, reports, and discussion of the outstanding works and authors up to the twentieth century. Not open to majors. This course is not divisible under any circumstances. Prerequisite: Courses 3, 4, or 5, 6, or 7, 8. PROFESSOR ORTI. M W F 10.

§17. Spanish Literature in the Middle Ages and the Renaissance.**[3]**

Spanish literature from its origins to the end of the Renaissance. Monthly book reports on novels or dramas. Intended for students majoring in Spanish and nonmajors fluent in the language. Open also to qualified students on written permission of the instructor. Not open to those who have taken Course 15–16. Prerequisite: Courses 3, 4, or 5, 6, or 7, 8. PROFESSOR UCELAY. M W F 11.

§18. Spanish Literature from the Golden Age to the Enlightenment.**[3]**

Lectures, reading and discussion. Monthly written reports. Intended for students majoring in Spanish and nonmajors fluent in the language. Open also to qualified students on written permission of the instructor. Not open to those who have taken Course 15–16. Prerequisite: Courses 3, 4, or 5, 6, or 7, 8, or 17. PROFESSOR GARCÍA-LORCA. M W F 11.

¹ All courses are conducted entirely in Spanish except Course 37, 38 and 39, 40.

- §20. Don Quijote.** [2]
Lectures, reading, and discussion. Monthly book reports on the outstanding critics of Cervantes' masterpiece. Prerequisite: Courses 15-16, 17, 18 or written permission of the instructor. PROFESSOR UCELAY. M W F 10.
- [§21-22. The Spanish Drama.**
PROFESSOR UCELAY. Not given in 1968-69.]
- §23y. Nineteenth Century Literature in Spain.** [4]
Romantic drama and poetry; the realistic novel. A term paper on Galdós. Prerequisite: Courses 15-16 or 17, 18, or the written permission of the department. PROFESSOR UCELAY. M W 1:10.
- §25, 26. Contemporary Spanish Literature.** [6]
Autumn Term: characteristics, technique and style of the writers of the generation of '98, from Unamuno to Juan Ramón Jiménez. (Baroja, Valle Inclán, Azorín, Benavente and A. Machado will be specifically studied.) Two papers. Spring Term: the ideas, trends, and new literary concepts from Ortega y Gasset to the present-day writers. (Special attention will be given to Pérez de Ayala, Miró, Gómez de la Serna, Salinas, Guillén, García-Lorca and Alberti.) Two papers. Prerequisite: Courses 15-16 or 17, 18 or the written permission of the instructor. Autumn Term: PROFESSOR JIMÉNEZ. Spring Term: PROFESSOR GARCÍA-LORCA. Tu Th 9.
- [§27. Spanish Poetry.** PROFESSOR FLORIT. Not given in 1968-69.]
- §31-32. Spanish-American Literature.** [8]
Lectures and study of the main literary works up to the present time. Book reports on the principal novels. This course is not divisible under any circumstances. Prerequisite: Course 13, 14, 15-16, 17, 18, or the written permission of the department. Autumn Term: PROFESSOR FLORIT. Spring Term: PROFESSOR SERVODIDIO. Tu Th 11.
- 33. Senior Seminar.** [0]
Intended to supplement or coordinate the work done in other courses and to introduce the student to the methods of scholarly research. Open only to seniors. PROFESSOR UCELAY. M W 1:10.
- C3811x-C3812y. Latin-American Seminar.**
A seminar which examines the mainsprings of civilization and cultural change in Latin America. Designed for senior majors in Latin-American Areas. PROFESSORS DE MORELOS and RABASSA. M 3:10-5.

VIII. Professional Schools

Professional and graduate training is available at Columbia University in many different areas. Barnard College keeps in close touch with the Schools and the Graduate Faculties, and advice concerning them may be obtained from class and major advisers.

The requirements for admission vary. In some instances a Bachelor's degree is essential; in others a student is eligible after two or three years of college study. Since only a limited number of students can be accommodated, the Office of University Admissions selects the most promising applicants. Announcements may be obtained from the Secretary of Columbia University. General information concerning admission requirements of specific professional schools and certain graduate programs follows.

SCHOOLS REQUIRING THE BACHELOR'S DEGREE BUSINESS

The Graduate School of Business offers a four-term course of study leading to the degree of Master of Business Administration. The School operates on a nonmandatory trimester academic schedule, thereby making possible the completion of the program in 16 months. Advanced studies lead to the degree of Doctor of Philosophy.

The School has available, through its several programs of student aid, the means to assist all those who require marginal help to carry a full program of daytime classes. Applications for the degree programs are accepted from students who are able to take advantage of continuous study on a full-time basis and who have earned the baccalaureate or its equivalent.

A limited number of special students with unique and appropriate qualifications are admitted for study without degree credit after an interview with the Assistant Dean.

INTERNATIONAL AFFAIRS AND REGIONAL INSTITUTES

The purpose of the School of International Affairs is to provide a course of instruction which will equip a limited number of students for staff and administrative posts in international affairs. Emphasis is upon the acquisition of an adequate knowledge and understanding of the field generally, and a specialized knowledge of one area of the world. The degree of Master of International Affairs will be awarded upon the satisfactory completion of the two-year course.

The basic requirements for admission are a superior undergraduate record and a Bachelor's degree from an approved institution. Students in the School of International Affairs as well as in other graduate departments of the University may elect to take an area concentration in one of the several area institutes: East Asian Institute, Near and Middle East Institute, the Institute on East Central Europe, Russian Institute, European Institute, the Institute of African Studies, the Institute of Latin American Studies, and the Southern Asia Institute.

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Further information may be obtained from the Office of University Admissions.

JOURNALISM

The Graduate School of Journalism offers a one-year course leading to the degree of Master of Science. A Bachelor's degree is required for admission to this school. Undergraduate work should, wherever possible, include courses in English composition, government of the United States, history since 1914, economics, and sociology.

LAW

The School of Law offers a three-year course of study leading to the degree of Bachelor of Laws. Although there is no required prelaw curriculum, students are advised to take courses in English, American political history, English political and constitutional history, economics, and in logic or philosophy or both.

Admission is on a competitive basis. All applicants are required to take an aptitude test. This test will be given in many locations throughout the United States several times during the academic year. For further information write to the Educational Testing Service, Princeton, New Jersey 08540.

LIBRARY SERVICE

The School of Library Service offers a year of graduate study leading to a Master of Science degree. Basic professional training is provided for work in college and university, school, public, and special libraries. Individuals with the requisite backgrounds and interests may be admitted to "special programs" in such fields as music, law, medicine, business and economics, science, art, and theology.

Candidates for admission should have a Bachelor's degree in liberal arts. An aptitude test and two years' study of a modern foreign language on the college level are among the requirements for admission.

Advanced study leading to the Doctor of Library Science degree is also offered.

PUBLIC HEALTH AND ADMINISTRATIVE MEDICINE

The Faculty of Medicine offers programs of professional study at the School of Public Health and Administrative Medicine leading to a Master of Science degree in Administrative Medicine, Biostatistics, Hospital Administration, Nutrition, and Parasitology. A Bachelor's degree from an approved college and evidence of satisfactory scientific training are necessary for admission. All candidates must spend at least one academic year at the school. An administrative residency of one calendar year's duration is required of all hospital administration students. A calendar year of administrative residency, or an equivalent experience, is required of all candidates for the degree in administrative medicine.

SCHOOL OF THE ARTS

The School of the Arts offers to graduates with a Bachelor's degree from Columbia University, or from another institution of acceptable standing, a course of study leading to the degree of Master of Fine Arts (in painting, and sculpture, a minimum of three semesters, and in theater, film, radio, television and writing, a minimum of two years).

A bulletin describing these graduate courses, and also undergraduate courses, is available at the Office of Admissions, School of the Arts, 440 West 110th Street, New York, N.Y. 10025.

SOCIAL WORK

The Columbia University School of Social Work offers a two-year course of study leading to the degree of Master of Science. An advanced curriculum leading to the degree of Doctor of Social Welfare is offered to graduates of schools of social work.

The School is an accredited member of the Council on Social Work Education. The curriculum includes a sequence of background and methods courses, supervised field work in social work agencies, and research to prepare students for professional practice in social work. A Bachelor's degree is required for admission. The undergraduate program of study must include a minimum of sixteen courses of liberal arts studies, with the emphasis in the direction of the social sciences.

Admission is on a selective basis. The announcement, giving information about the curriculum and dates for making application, may be obtained from the Director of Admissions, 2 East 91st Street, New York, N.Y. 10028.

TEACHERS COLLEGE

Teachers College, the University's Graduate School of Education, offers unique opportunities for advanced study in education and allied fields. For graduates of Barnard College, the Master of Arts in Teaching degree program, established in 1967, prepares secondary teachers of English, French, German and Spanish (Department of Languages and Literature); mathematics (Department of Mathematical Education); biology, chemistry, earth science, and physics (Department of Science Education); and of American history, world history, geography, area studies, and secondary school courses that draw upon anthropology, economics, political science, and sociology (Department of Social Studies). Details related to the Master of Arts in Teaching program are available on request at the Office of the Coordinator of Internships at Teachers College.

In addition to preparing teachers at the elementary and secondary levels, Teachers College also offers qualified students the opportunity to pursue studies in college teaching, administration, guidance, international education, and psychology.

For guidance in seeking admission and additional information regarding programs of study, contact the Director of the Barnard Education Program

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or call the Coordinator of the Master of Arts in Teaching program, Mr. Edward R. Ducharme, Teachers College: telephone 870-4055, Room 319, Main Hall.

UNION THEOLOGICAL SEMINARY

Union Theological Seminary offers courses of study leading to the degrees of Bachelor of Divinity, Master of Religious Education, Master of Arts in the fields of Christian Education, Biblical Literature, and Comparative Religions, and Master of Sacred Music.

A Bachelor's degree is required for admission. Those applicants are selected who in the light of expressed purpose, personality, and record of scholarship give especial promise of usefulness in some form of Christian ministry.

The Seminary also participates in joint programs leading to the degrees of Master of Arts and Doctor of Philosophy in the field of religion at Columbia University.

Further information may be obtained from the Office of the Registrar, 3041 Broadway, New York, N.Y. 10027.

SCHOOLS NOT REQUIRING THE BACHELOR'S DEGREE

Admission may be gained to the following professional schools without a Bachelor's degree. In some instances, an exceptionally good student may receive the Bachelor of Arts degree from Barnard College after the completion of three years of undergraduate work and one year or more of work in the professional program. Students interested in such plans should make inquiries in the Office of the Dean of Studies early in their college careers.

ARCHITECTURE

The School of Architecture offers courses of study leading to the degree of Bachelor of Architecture. Under normal conditions, the degree may be obtained in four years.

The minimum course requirement for admission to the School is completion of 16 courses, including the following: English composition and literature, a foreign language (preferably French or German), mathematics through differential and integral calculus, physics, European history, and either economics, government, or sociology. The courses are described in detail in the Bulletin of the School of Architecture. A copy may be obtained from the Office of Architecture Admissions. Preference is given to applicants who hold an undergraduate degree.

DENTAL HYGIENE

A two-year course for dental hygienists is offered at the School of Dental and Oral Surgery, leading to the Bachelor of Science degree in Dental Hygiene. The minimum requirement for admission is two years of college work. The preparatory work at Barnard should include the satisfactory completion of courses in English, chemistry, sociology, and psychology.

This profession is controlled by state law and licensing examination. Graduates are qualified as dental hygiene teachers and public health dental hygienists.

Scholarship aid is available.

DENTAL AND ORAL SURGERY

The School of Dental and Oral Surgery offers a four-year course of study leading to the degree of Doctor of Dental Surgery. The preparatory work at Barnard should comprise a minimum of two courses each in English composition and literature, physics, biology, inorganic chemistry, and organic chemistry. The Admissions Committee of the School of Dental and Oral Surgery will consider carefully the entire predental record and select the most promising candidates. The minimum requirement for admission is three years of college work.

Scholarship aid for women is available.

ENGINEERING AND APPLIED SCIENCE

The School of Engineering and Applied Science offers undergraduate programs in the professional branches of engineering and in the applied sciences.

The first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a minimum of courses is taken in the engineering school. After successful completion of the first three years' work, the student applies for admission to the School of Engineering and Applied Science, where the remaining two years of more specialized engineering study are taken.

Although the above plan is educationally desirable, it is possible in some cases for the exceptional student to complete the prescribed subjects with two years in Barnard College and two years in the School of Engineering and Applied Science. This program leads only to the degree of Bachelor of Science.

Students interested in engineering or applied science should offer at entrance to Barnard mathematics through trigonometry, physics, and if possible chemistry, in addition to the general admission requirements. For details the Office of Admissions of the School of Engineering and Applied Science should be consulted.

Further information about the engineering program and the advanced degrees may be obtained from the announcement of the School.

MEDICINE

The College of Physicians and Surgeons offers a four-year course of study leading to the degree of Doctor of Medicine. The preparatory work at Barnard must include the requirements as follows: at least one academic year of English, physics, biology, general chemistry, and organic chemistry.

Before admission to the medical school, the entire premedical record of each applicant is carefully examined in order that those who are adjudged the most promising candidates for the profession may be selected. While the minimum requirement for admission is three full academic years of college work, the complete college course of four years is considered the most desirable preparation.

NURSING

Columbia University offers a course in professional nursing leading to the degree of Bachelor of Science. The program is conducted on the Medical Center campus. The minimum requirement for admission is two years of college work. The program covers two academic years and two summer sessions. A special program is offered for students who hold a Bachelor's degree. This program is two academic years and one summer session in length. Preparatory work should comprise courses in chemistry, biology, psychology, and sociology. Acceptance of a candidate is based on grounds of character and health as well as fulfillment of the academic requirements.

OCCUPATIONAL THERAPY

The Faculty of Medicine offers a program of professional study in occupational therapy leading to a Bachelor of Science degree. Two years of acceptable college work are required for admission, with courses in biology, English composition, psychology, and in sociology. The course of study is of 25 months' duration including two academic years and nine months of clinical experience.

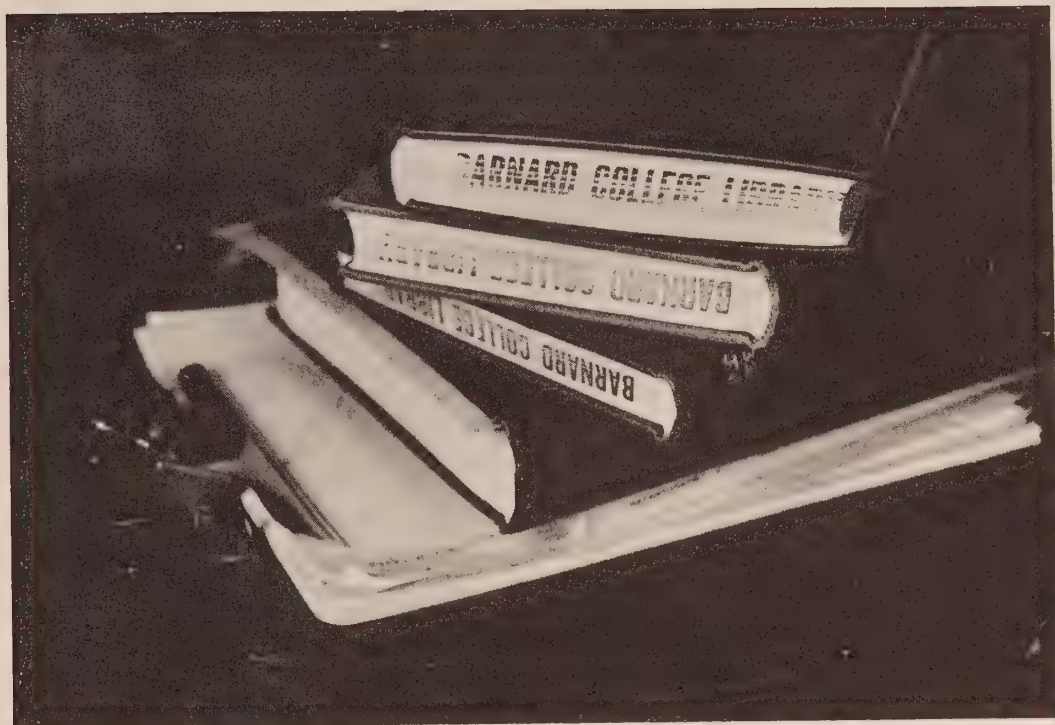
A graduate program of 17 months is offered for students already possessing a Bachelor of Arts or Science degree. The applicant must meet specific prerequisites in biology, psychology and sociology. On satisfactory completion of the program of one academic year and nine months of clinical experience, the Faculty of Medicine awards a certificate.

PHYSICAL THERAPY

The Faculty of Medicine offers a program of professional study in physical therapy which leads to the Bachelor of Science degree. The candidate for admission must present two years of acceptable college work, including courses in biological science, physics, English, and psychology. Requirements for admission to the licensure examination for physical therapists in the State of New York include two courses each in biology, chemistry, and physics. Students who plan to practice in New York State should accordingly fulfill the remainder of these requirements.

The course of professional study covers 21 calendar months, including two academic years of didactic instruction and clinical practice, and a two-month clerkship following the junior year of study.

A graduate program of one calendar year is offered for students already possessing a Bachelor of Arts or Bachelor of Science degree, depending on previous preparation in biological science, physics, English, and social science. The Faculty of Medicine awards a certificate upon satisfactory completion of this course.



IX. Fees

Barnard does not charge its students the full cost of their instruction, since its Trustees believe that admission to college should be based on intellectual ability and promise rather than financial resources. Student payments meet only two-thirds of the total educational expense; the balance must be obtained each year from investment income and from gifts of the Associate Alumnae and other friends of the College. By continuous efforts to increase annual gifts and endowment, and by economy of operation, the College keeps charges as low as possible without sacrificing the quality of its instruction.

SUMMARY OF FEES

I.	Full-time nonresident and commuter students	Each Term Academic Year	
	Tuition and fees ^{1,3}	\$ 900.00	\$1,800.00
II.	Full-time resident students		
	Tuition and fees ^{1,3}	\$ 900.00	\$1,800.00
	Residence fees ²	575.00	1,150.00
	Total	\$1,475.00	\$2,950.00

III. Other students
All students taking less than a full schedule (that is, less than three courses) are required to pay the registration (\$10), health service (\$15), and Undergraduate Association activity (\$10) fees each term, as well as \$225 per course for all academic work and \$5 for physical education, if this is required.

Students registering *in absentia* for one term or for one year are required to pay a registration fee of \$15.

IV. Deposits
All students: In order to obtain a place on the college roll for the ensuing academic year, students who are currently enrolled must pay a deposit of \$100 toward tuition and fee charges on or before *May 15*. Applicants for admission will be billed for the deposit at the time they signify their acceptance of admission to the College. One-half of this deposit (\$50) will be applied to the charges of the Autumn Term and the remainder to the charges of the Spring Term. The deposit toward the term's charges is forfeited unless the Bursar is notified of a change in plans no later than *August 1* for the Autumn Term or *December 2* for the Spring Term.

¹ Includes registration, health service, and Undergraduate Association activity fees.
² Residents of Brooks, Hewitt, and Helen Reid Halls, \$575 each term, including room, board, and laundry.
Residents of 616 West 116th Street, 620 West 116th Street, and Plimpton Hall, \$300 each term, including room and laundry. Board available on campus at \$275 per term.
For nonresidents and commuters, board available on campus at \$275 per term.
³ Freshmen and transfers pay an orientation fee of \$10 for the Autumn Term in which they enter.

Resident students and nonresidents who pay housing fees through the College: a room deposit of \$50 is payable by *May 15* to secure the assignment of a room for the following academic year. One-half of this deposit (\$25) will be applied to the charges of the Autumn Term and the remainder to the charges of the Spring Term. The deposit toward the term's charges is forfeited unless the Bursar is notified of a change in plans no later than *August 1* for the Autumn Term or *December 2* for the Spring Term.

Deposits for the use of apparatus and material required in:

Chemistry 41, 42, 51, 58, 63, 87, 88, each course \$20.00

V. Payment of Charges and Fees

All charges and fees are payable semiannually, in advance. No reduction is made for late registration. Registration is not complete until all charges and fees are paid. Failure to complete registration (including the payment of all charges and fees) on time imposes automatically the statutory charge of \$15 for late registration.

Payment of charges and fees (accompanied by copy of the bill) must be made by *September 3* for the Autumn Term and by *January 15* for the Spring Term. If payments are mailed, envelopes must be postmarked not later than *September 3* or *January 15* respectively. Students admitted for the Autumn Term after *September 3* must pay their bills before the first day of registration. A late payment fee of \$15 will be charged on all payments made or postmarked after midnight on the above dates.

Rooms will not be held for students whose total bills are not paid by *September 3*.

All charges and fees are subject to change at any time at the discretion of the Trustees.

The privileges of the College, including examinations, are not available to any student who is delinquent in the payment of charges or fees. When bills are not paid by their due date or satisfactory arrangements for their payment are not made with the Bursar, the student will be required to withdraw from the College. Financial obligations include not only tuition, fees, and residence charges (if any) but fines due the libraries and other charges which may be incurred.

Checks or money orders in payment of all charges and fees must be in U. S. funds (at a U. S. bank) payable to Barnard College. Checks or money orders should be made out for the exact amount of the payment due.

(The application fee of \$15, payable when application for admission is filed, is not credited on the bill and is never refunded.)

NOTE: Holders of a New York State Regents Scholarship and/or Scholar Incentive Award may deduct the amount shown on their Award Certificate provided the certificate is enclosed with the bill.

VI. Deferred Payment

Many parents prefer to meet academic expenses out of monthly income, rather than in large cash payments. To these parents, we are making available the services of Education Funds, Inc., 10 Dorrance Street, Providence, R. I. 02901. It is a national organization specializing in education financing. The EFI program is low in cost and provides excellent benefit provisions including complete insurance protection. Information concerning the plan will be sent to all parents in the spring of 1968.

The College will also accept payment made through any bank or trust company or recognized financing agency provided payments are made on or before *September 3* for the Autumn Term or *January 15* for the Spring Term.

VII. Adjustment of Fees and Refunds

For changing program of study: If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be refunded the excess only if the alteration in her program was made by *October 4* in the Autumn Term and by *February 14* in the Spring Term. If the new program calls for higher tuition, the student must pay the difference at the time she registers the program change.

For withdrawal: If a student withdraws from the College after *August 1* for the Autumn Term and *December 2* for the Spring Term, the following amount of tuition and residence fees paid will always be retained:

Tuition and fees	\$50.00
Residence fees	25.00

Up to and including the first Friday of the term (see the Academic Calendar), the remaining tuition, \$850, which the student has paid will be refunded in full. After the first Friday of the term, twenty per cent of the remaining tuition, \$170, will be retained by the College for each additional week, or part of a week, of the semester up to the date on which the student's written notice of withdrawal from the College is received by the Office of the Dean of Studies.

Up to and including the first Friday of the term (see the Academic Calendar), the remaining residence fees, \$550, that the student has paid will be refunded in full. After the first Friday of the term, ten per cent of the remaining residence fees, \$55, will be retained by the College for each week, or part of a week, up to the date on which the student's written notice of withdrawal from the College is received by the Office of the Dean of Studies.

A resident student who moves from the residence halls while still a student in the College will forfeit all residence fee payments.

If a student has made only partial payment on her tuition or room and board, the amount of unpaid balance for each will be deducted

from any withdrawal credit that is allowed. If the unpaid balance is larger than the credit allowed, the student must pay the difference.

Refunds: No refunds for board will be made for students who wish to take meals off-campus. Barnard is nondenominational and no provision can be made for special diets.

VIII. Additional Charges

Orientation fee: Required of all students entering Barnard College for the first time in September.....	\$10.00
Tuition for technical courses in art history: See Announcement of the School of the Arts for special fees.	
Deferred and special examinations, payable in each case before the examination is held:	
For each deferred examination.....	5.00
For each special examination.....	10.00
(A special or deferred examination is one taken at any time other than the conclusion of a course.)	
Late registration for academic work (see page 35).....	15.00
Late filing of:	
Tentative program cards.....	10.00
Application for deferred examinations.....	5.00
Application for language placement test.....	5.00

IX. Other Expenses

There are other miscellaneous expenses not payable to the College for which the student should plan. These include a gymnasium costume, approximately \$22; Residence Halls Student Association dues of \$3 for residents of College halls; and a minimum of \$75 per year for textbooks. Nonresident and commuter students should estimate a minimum of \$100 (\$3 weekly) for lunches, if they plan to buy them in the cafeteria or snack bar. Individual estimates of expense should also include minimum allowances for transportation for nonresident and commuter students, or two round-trip coach fares from home to college for resident students; clothes (\$150); incidentals (\$150–\$200).

X. Student Health Service

Campus medical service is available to all Barnard students and is covered by the Health Service fee included in the comprehensive charge payable each term. This service is not available during college vacations. Medical examinations are required of all freshmen and seniors. (Students are not permitted to register for the succeeding term until the required examination is complete.) The final date for completion of the examination by the College Physician is *December 15* for seniors; *May 15* for freshmen.

Students are entitled to the following services:

Barnard College Medical Office

Advice, treatment, and examination by the Barnard College physicians or nurses.

Columbia Health Service or St. Luke's Hospital, *upon referral by the Barnard College Physician.*

- a. One consultation without charge with any specialist.
- b. Surgical treatment of minor surgical condition.
- c. Laboratory or X-ray studies as indicated.
- d. Ten days a term free care in the Columbia University Infirmary.
- e. Four days of ward care at St. Luke's Hospital for severe acute surgical and medical conditions requiring hospitalization. In practically all situations when additional bed care is needed, it can be spent in convalescence in the Columbia University Infirmary.

The following services are not provided:

Dental care; eye examination and the fitting and provision of glasses; house calls or room visits; ambulance service; free care for chronic conditions or conditions predating original college matriculation.

XI. Insurance for Foreign Students

Foreign students who are not residing in the United States with members of their families are required to participate in the Accident and Sickness Insurance Plan. The Accident and Sickness Insurance Plan fee of \$42 a calendar year is payable to the Insurance Company of North America. Full information concerning this policy will be mailed to the student with her college bill.

XII. Hospital Insurance

All students are eligible for membership in the Associated Hospital-United Medical Service for twelve consecutive months beginning October 1 at a cost of \$78.24. See the Bursar's Office for complete details.

XIII. Safekeeping of Students' Funds

Barnard College is not prepared to receive funds from students for safekeeping nor to cash personal checks or travelers checks.

To cover their immediate expenses, students should provide themselves with travelers checks, which can be cashed at a local bank, or money orders, which the Columbia University Station of the U. S.

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Post Office will cash upon presentation of the Bursar's receipt. A Bursar's receipt is issued when a student registers at the beginning of each term.

It is also possible to open a checking, special checking, or savings account at one of the local banks:

Chemical Bank New York Trust Company
Broadway and 113th Street, New York, N.Y. 10025

First National City Bank of New York
Broadway and 111th Street, New York, N.Y. 10025

American Savings Bank
Broadway and 111th Street, New York, N.Y. 10025

X. Financial Aid

In so far as possible, the College helps qualified students who have financial need. Since the College fees do not cover the entire cost of her education today every student at Barnard in effect receives some financial aid from past donors. The balance is made up by endowment income and gifts. In addition to grants and loans, opportunities for part-time employment are provided to open Barnard's doors to girls of superior talent from all sections of the country. (See Office of Placement and Career Planning, page 44.) Students are urged to investigate federal and state aid programs and college tuition financing plans offered by local banks and insurance companies.

ANNUAL AWARDS

Loans or combination grant-and-loan awards are made by the Faculty Committee on Financial Aid to full-time students who have financial need, high scholarly ability, excellent character, and promise of future accomplishment. *The College shall be the sole judge of the financial aid to be granted, and may at any time withdraw or discontinue such aid.* The amount of the award depends on the student's financial need and is determined from the following:

1. The amount of the parents' contribution as estimated from information given on the College Scholarship Service forms.
2. The amount available from other sources, such as the New York State Regents Scholarships and New York State Scholar Incentive Awards.
3. The student's savings distributed over a five-year period.
4. The student's summer earnings (at least \$200 for freshmen and \$300 for sophomores, juniors, and seniors).
5. After the freshman year, the student's earnings from part-time work during the academic year (\$200).

The basic budget used to compute financial need includes, in addition to the college fees, allowances for other expenses as described on page 159.

Awards are for one year only. Students in good standing are eligible to apply for further assistance in subsequent years.

Applications for financial aid for entering students may be obtained from the Admissions Office and should be returned to that Office on or before January 15. The student applies in terms of financial need, not for any one of the specific scholarships listed in the following pages.

ENTERING STUDENTS: Entering students who are applying for aid must also file a financial statement with the College Scholarship Service, Box 176, Princeton, New Jersey 08540, or Box 881, Evanston, Illinois 60204, or Box 1025, Berkeley, California 94701, not later than January 15 of the senior year in high school. Forms may be obtained from the school or they will be

sent by the College Scholarship Service on request. The Service acts as a central filing and distributing agent. Photographic copies of the completed statement will be sent to the colleges named by the applicant.

Each applicant must complete and file both forms as instructed above in order to be considered for financial aid. Applicants are notified of awards at the time they receive their notice of admission to the College.

If an entering student applies to more than one college in the Seven College Conference (Barnard, Byrn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar, and Wellesley), her application is reviewed by the appropriate members of the Conference in order that awards may be made on a noncompetitive basis. Amounts vary only according to the difference in fees and, whenever possible, are equivalent in value.

STUDENTS IN COLLEGE: Students in college who are in need of financial aid and are academically qualified must file applications on special forms obtainable in the Financial Aid Office. Applications must be filed on or before February 7, 1969.

Applicants will be notified as soon as awards are made. Recipients are requested to inform the Office of Financial Aid immediately, in writing, of their plans with respect to the funds assigned to them.

NEW YORK STATE SCHOLAR INCENTIVE AWARDS

Any student who has been a legal resident of New York State for the preceding year is entitled to a Scholar Incentive Award (\$50 to \$250) for each term in which she is registered as a full-time degree candidate. The amount of this award is based upon the net taxable balance of her income and the income of those responsible for her support, as reported on the New York State Income Tax Return for the previous year. Application for awards must be made annually and should be filed before July 1 for each academic year, but will be accepted up to December 1. Applications for the Spring Term only have an April 1 deadline. Further information and application forms may be obtained from the Department of Education, Regents Examination and Scholarship Center, Albany, New York 12224.

NEW YORK REGENTS COLLEGE SCHOLARSHIPS

The Regents of the University of the State of New York award, each year, scholarships to full-time degree candidates who are legal residents of New York State. These awards are based on the Regents Scholarship Examination and are open to students in any approved college or university in the state. Awards range between \$125 to \$500 a term, depending upon need. High school students can get further information from their counselors at school. New York Regents Scholarships are not automatically renewed; they must be reapplied for annually.

LOAN FUNDS

There are various loan funds at Barnard available for assignment to students as a part of their financial aid.

Barnard College Loans

The Associate Alumnae of Barnard College maintain a Student Loan Fund from which loans to seniors are made. In 1950, through a gift of \$26,000 from Mr. and Mrs. Gerard Swope and Miss Henrietta Swope, an additional fund known as the Swope Loan Fund was established. In the spring of 1960, the Barnard College Loan Fund was established by the Board of Trustees to help meet the increased need of students. In 1961, the Pauline Hirschfeld Loan Fund was established with a bequest of \$5,000 from Pauline Steinberg Hirschfeld, '08. In 1966 two new loan funds were established: the Barnard College Club of Cleveland Loan Fund with a gift of \$1,000, to be used with preference for a student from the Northeastern Ohio area; and the Ann Susan Becker Memorial Loan Fund with gifts of \$1,075.00 from her family. In 1967 the Tudor Foundation Student Loan Fund was started with a gift of \$5,000 from the Tudor Foundation.

These funds are administered by the Faculty Committee on Financial Aid. Loans are regularly assigned as part of a student's financial aid award. No interest is charged while the student is in college. Payments on principal may be made at any time before graduation. Principal of indebtedness is repaid in semiannual installments of \$150 each after the student ceases to be in full-time attendance at Barnard College. Interest is charged from the first day of the month after the student ceases to be in full-time attendance at Barnard College at the rate of three per cent per annum on the unpaid balance.

The Morris Morgenstern Student Loan Fund of \$5,000 was established in 1959. Interest-free loans not to exceed \$500 are granted upon application to the Financial Aid Office to any deserving undergraduates, other than freshmen, who are in need of temporary emergency assistance. Loans are granted for short terms, no longer than a year from the date of issue.

The Tudor Foundation Student Loan Fund of \$5,000 was established in 1967. Interest-free loans not to exceed \$1,000 in any one academic year are granted upon application to the Financial Aid Office, to mature when the student terminates her connection with the College.

National Defense Student Loan Program

Barnard participates in the National Defense Student Loan Program (Title II of the National Defense Education Act of 1958). A portion of the funds for this Program are granted to the College by the federal government after application by the College; the balance of the funds are contributed by Barnard. These loans are assigned by the College to students as a part of their financial aid. Special consideration is given to those students who intend to teach in college or in public or private elementary or secondary schools.

State Loans

Legal residents of the State of New York who are degree candidates are eligible to apply for loans guaranteed by the New York Higher Education Assistance Corporation. No interest is charged as long as the student is registered as a full-time student, but three per cent interest and repayment

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of principal must begin when a student ceases to be so registered. Further information and application forms for these loans should be obtained from local banks.

Other states also have loan plans through the Federal Guaranteed Loan Program. Students should inquire at their local banks regarding such loan plans.

BARNARD COLLEGE SCHOLARSHIP FUNDS

A list of scholarship funds established by gifts, endowment, or in trust follows. The income from such funds, both unrestricted and restricted, and from the funds for grants-in-aid is available each year.

UNRESTRICTED¹

NIELS J. ALLISON FUND (1964). From the estate of Beatrice C. Allison '12. \$55,229.

ALUMNAE SCHOLARSHIP FUND (1922). A tenth reunion gift by the Class of 1912, subsequently supplemented by legacy from the estate of Julia Ludlow Young and by gifts of other alumnae. Approximately \$15,742.

ANNA E. BARNARD SCHOLARSHIP FUND (1899). In honor of Mrs. John G. Barnard by Emily H. Bourne. \$3,000.

FRANCES E. BELCHER SCHOLARSHIP FUND (1963). By request of Miss Frances E. Belcher. \$42,257.

RUTH MARSHALL BILLIKOPF SCHOLARSHIP FUND (1950). In honor of Ruth Marshall Billikopf '19. \$5,000.

VARIAN WHITE BLUMBERG SCHOLARSHIP FUND (1952). From the estate of Varian White Blumberg '13. \$5,000.

CHARLES E. BOGERT MEMORIAL SCHOLARSHIP AND ANNA SHIPPEN YOUNG BOGERT MEMORIAL SCHOLARSHIP FUND (1913). By bequest of Annie P. Burgess. \$10,000.

EVA-LENA MILLER BOOTH SCHOLARSHIP FUND (1932). In memory of Mrs. Eva-Lena Miller Booth, by the New York City Chapter of the Daughters of the American Revolution. \$1,000.

BREARLEY SCHOOL SCHOLARSHIP FUND (1889). By pupils and former pupils of the Brearley School. \$3,000.

MARTHA ORNSTEIN BRENNER SCHOLARSHIP FUND (1915). In memory of Martha Ornstein Brenner '99, by her friends. \$4,000.

ARTHUR BROOKS FUND (1897). By Olivia E. Phelps Stokes as a memorial to the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence. \$5,000.

THOMAS F. CLARK STUDENTS' LOAN FUND (1928). By bequest of Mrs. Fanny Foster Clark. \$100,000.

JENNIE B. CLARKSON SCHOLARSHIP FUND (1898). By Mrs. W. R. Clarkson. \$3,000.

¹ Figures compiled as of January 1, 1968.

- CLASS OF 1921 SCHOLARSHIP FUND (1931). A tenth reunion gift by the Class of 1921. \$2,500.
- CLASS OF 1954 SCHOLARSHIP FUND (1955). Gifts of the Class of 1954 through their fifth reunion in 1959. \$4,584.
- COLLEGE BOWL SCHOLARSHIP FUND (1968). Established with gifts from the General Electric Company, *Seventeen* Magazine, and Gimbel's Department Store, earned by the Barnard College Bowl Team's five successive victories. \$19,500.
- VERA B. DAVID SCHOLARSHIPS (1962). Income from the trust established by bequest of Vera B. David in memory of her late husband, John David.
- ADA M. DONELLE SCHOLARSHIP FUND (1948). By bequest of Mrs. Ada M. Donelle. \$121,751.
- MARGARET JANE FISCHER SCHOLARSHIP FUND (1968). With a gift from Margaret Jane Fischer '35. Awarded annually. \$5,115.
- FISKE SCHOLARSHIP FUND (1895). By Mrs. Martha T. Fiske-Collord. \$5,000.
- GALWAY FUND (1912). By an anonymous donor. \$2,400.
- ANITA HYMAN GLICK SCHOLARSHIP FUND (1968). In memory of Anita Hyman Glick '62 by her family and friends. Awarded annually to students who are academically qualified and in need of financial aid. \$6,574.
- IRMA ALEXANDER GOLDFRANK FUND (1919). In memory of Irma Alexander Goldfrank '08, by her friends. \$2,105.
- GRAHAM SCHOOL SCHOLARSHIP FUND (1907). By the Graham Alumnae Association. \$7,300.
- LOUISE H. GREGORY SCHOLARSHIP FUND (1955). From gifts in memory of Louise H. Gregory. \$4,497.
- HARKNESS SCHOLARSHIP FUND (1939). With a gift from Edward S. Harkness. \$100,000.
- RITA HILBORN HOPF MEMORIAL SCHOLARSHIP FUND (1966). By bequest of Rita Hilborn Hopf '14. \$239,012.
- CHARLES EVANS HUGHES SCHOLARSHIP FUND (1952). By bequest of Charles Evans Hughes. \$14,300.
- LILY MURRAY JONES SCHOLARSHIP FUND (1950). In memory of Lily Murray Jones '05, Alumnae Trustee from 1939 to 1943, by Murray, Alfred, and Wallace Jones. \$25,146.
- MARJORIE LAWRENCE KAUFMAN SCHOLARSHIP FUND (1965). By the Trustees out of funds left to the College by the life income contract of Marjorie Lawrence Kaufman '19. \$24,290.
- AUGUSTA LARNED SCHOLARSHIP FUND (1924). By bequest of Augusta Larned. \$10,000.
- MARJORIE HERRMANN LAWRENCE SCHOLARSHIP FUND (1967). In memory of Marjorie Herrmann Lawrence '19. \$16,000.
- HARRIETT MOONEY LEVY SCHOLARSHIP FUND (1965). By bequest of Harriet Mooney Levy. \$69,339.
- JOAN SPERLING LEWINSON SCHOLARSHIP FUND (1955). With a gift from Joan Sperling Lewinson '13. \$29,464.

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JUDITH LEWITTES SCHOLARSHIP FUND (1957). In memory of Judith Lewittes '55, by her family and friends. \$5,519.

ANNE ELIZABETH LINCOLN SCHOLARSHIP FUND (1963). From the estate of Anne Elizabeth Lincoln '24. \$8,441.

AMY LOVEMAN SCHOLARSHIP. See Undergraduate Awards, page 178.

LOUISE GRACE LUBY AND JAMES LUBY SCHOLARSHIP FUND (1947). From the estate of Grace Farrant Luby '93. \$5,000.

CECILE LEHMAN MAYER SCHOLARSHIP FUND (1962). With a gift from Mr. and Mrs. Paul Mazur, the income to be awarded annually for financial aid to the maximum of four or fewer students. \$25,000.

MEMORIAL SCHOLARSHIP FUND (1954). To receive contributions in memory of deceased alumnae and friends. \$35,744.

WILLIAM MOIR SCHOLARSHIP FUND (1912). In memory of William Moir by his wife. \$10,000.

CAROLINE CHURCH MURRAY FUND (1918). In memory of his wife, Caroline Church Murray, by George Welwood Murray. \$5,000.

ANNETTE FLORANCE NATHAN SCHOLARSHIP FUND (1947). From the estate of Frederick Nathan. \$3,000.

LUCRETIA PERRY OSBORN SCHOLARSHIP FUND (1940). In memory of Lucretia Perry Osborn, a Trustee of Barnard College from 1893 to 1930, by her family and friends. \$5,000.

M. GLADYS QUINBY SCHOLARSHIP FUND (1961). By bequest of M. Gladys Quinby '08 and gifts of friends. \$4,887.

PETER C. RITCHIE, JR. SCHOLARSHIP FUND (1937). By bequest of Virginia J. Ritchie. \$4,436.

EDITH LOWENSTEIN ROSSBACH MEMORIAL SCHOLARSHIP FUND (1950). In memory of Edith Lowenstein Rossbach '19, by her family, friends, and classmates. \$23,304.

EDNA HELLER SACHS SCHOLARSHIP FUND (1955). With a gift from Edna Heller Sachs '10. \$13,250.

ELEANORA BUTLER SANDERS SCHOLARSHIP FUND (1922). By bequest of Henry M. Sanders. \$10,000.

ANNA M. SANDHAM SCHOLARSHIP FUND (1922). By bequest of Anna M. Sandham to Columbia University. \$10,000.

SCHMITT-KANEFENT SCHOLARSHIP FUND (1931). By bequest of Catherine Schmitt. \$7,102.

SCHOLARSHIP FUND (1901). By general subscription through the Scholarship Committee of the Board of Trustees. Approximately \$11,980.

KATHERINE FLINT SHADEK SCHOLARSHIP FUND (1961). By Katherine Flint Shadek '44. \$10,920.

EMILY JAMES SMITH SCHOLARSHIP FUND (1899). In honor of Miss Smith, Dean of Barnard College from 1894 to 1900, by Emily H. Bourne. \$3,000.

GEORGE W. SMITH SCHOLARSHIP FUND (1906). In memory of George W. Smith, a Trustee of Barnard College, by Mrs. Martha T. Fiske-Collord. \$5,000.

EDNA PHILLIPS STERN SCHOLARSHIP FUND (1952). In memory of Edna Phillips Stern '09, by her family and friends. \$20,797.

ISABEL GREENBAUM STONE SCHOLARSHIP FUND (1957). In memory of Isabel Greenbaum Stone '18, by her family. Recipients of these scholarships are urged to repay the amounts they receive as soon as they are in a position to do so. \$14,065.

OLON E. SUMMERFIELD FOUNDATION SCHOLARSHIP FUND (1960). Gifts from the Solon E. Summerfield Foundation. \$8,000.

VELTIN SCHOOL SCHOLARSHIP FUND (1905). By the alumnae of Mlle. Veltin's School. \$3,000.

ALMA F. WALLACH SCHOLARSHIP FUND (1951). In memory of Alma F. Wallach from the estate of Richard L. Leo. \$1,000.

ELLA WEED SCHOLARSHIP FUND (1895). In memory of Ella Weed, Chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence, by pupils and alumnae of Miss Anne Brown's School. Approximately \$8,602.

HYMEN AND HELEN WERNER SCHOLARSHIP FUND (1964). In memory of Hymen and Helen Werner. Established by Helen Frankfield Werner '06 in 1953 in memory of her husband. Following her death maintained as the Hymen and Helen Werner Scholarship Fund by her daughters, Therese Werner Kohnstamm '33, Laura Werner Wallerstein '36 and Jean Werner Kane '37. \$5,768.

SCHOLARSHIP FUNDS

RESTRICTED¹

MARY GERTRUDE EDSON ALDRICH SCHOLARSHIP FUND (1916). By Mrs. James Herman Aldrich to assist, in her senior year, a student who has shown in her college life the moral qualities which go to the making of fine womanhood. \$1,000.

BERTHA R. BADANES SCHOLARSHIP FUND (1966). By Bertha R. Badanes '14. For children of New York City school teachers preferably from Brooklyn. If there is no qualified candidate the award may be used for another needy student, preferably from Brooklyn. \$5,000.

BARNARD COLLEGE CLUB OF NEW YORK SCHOLARSHIP FUND (1952). For a Barnard student whose home is outside the area of the City of New York. Approximately \$33,079.

BARNARD-IN-WESTCHESTER ENDOWMENT FUND (1962). By the Barnard College Club of Westchester County. For scholarships, preferably for students from Westchester County. \$10,554.

BARNARD SCHOOL ALUMNAE SCHOLARSHIP FUND (1916). By the alumnae of the Barnard School for Girls. Awarded to a student in any class, preference being given to nominees of the school. \$4,000.

WILLINA BARRICK MEMORIAL SCHOLARSHIP FUND (1936). In memory of Willina Barrick '00, by the College Club of Jersey City. Awarded on the nomination of the Club to a graduate of a Jersey City secondary school. \$10,634.

IRVING BERLIN SCHOLARSHIP FUND (1950). By Irving Berlin. Awarded annually to one or more girls of foreign-born parentage. \$23,500.

¹ Figures compiled as of January 1, 1968.

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IDA BLAIR MEMORIAL FUND (1937). In memory of Ida Blair by the Women's Democratic Union. To be used for the purchase of books for a student, preferably one studying political science. \$700.

ALICE MARIE-LOUISE BRETT SCHOLARSHIP FUND (1930). In memory of his daughter, Alice Marie-Louise Brett '15, by bequest of Philip E. Brett. Awarded during her senior year to a student specializing in French. \$10,000.

WILLIAM TENNEY BREWSTER AND ANNA RICHARDS BREWSTER FUND (1961). By bequest of William Tenney Brewster. To be awarded preferably in amounts not less than \$1,000, with priority to daughters of professional people educated in independent schools. \$166,614.

BROOKLYN SCHOLARSHIPS (1895). By the Trustees of Columbia University in recognition of the gift to Columbia University by President Seth Low of a memorial building for the University Library. Open to students residing in Brooklyn and prepared in a Brooklyn school. Twelve at \$150 each.

ANNE BROWN ENDOWMENT SCHOLARSHIP FUND (1939). In memory of Anne Brown, by the Anne Brown Alumnae Association, for young women of the City of New York. Approximately \$31,339.

CARPENTIER RESIDENCE SCHOLARSHIP FUND (1919). By request of Horace W. Carpentier. Awarded annually to students who are not residents of New York City or its vicinity. \$200,000.

ELIZA TAYLOR CHISHOLM MEMORIAL SCHOLARSHIP FUND (1901). By the Alumnae Association of Miss Chisholm's School, which Association reserves the privilege of precedence for such candidates as it may recommend. \$3,000.

MRS. HENRY CLARKE COE SCHOLARSHIP FUND (1910). By the National Society of New England Women, now the New York City Colony of the National Society. Awarded, on nomination of the Chairman of the Scholarship Committee of the New York City Colony, to a student from New England or of New England parentage. After the award is made the Society requires from the beneficiary full obedience to discipline and the highest ideals of scholarship. This may be awarded to an entering freshman. \$3,600.

CLASS OF 1919 DECENNIAL FUND (1929). A tenth reunion gift by the Class of 1919, for a resident student. \$5,000.

AUGUSTA SALIK DUBLIN SCHOLARSHIP FUND (1960). In memory of Augusta Salik Dublin '06, by her family and friends. Awarded at the discretion of the Committee on Financial Aid to a Barnard student, to enable her to continue her education in preparation for leadership in a field of social welfare, such as social work, social legislation, housing and city planning, or a related area. Available either to a student for undergraduate study or to a graduating student for graduate work, for one or more years. \$13,182.

EDUCATIONAL AND CULTURAL TRUST FUND OF THE ELECTRICAL INDUSTRY SCHOLARSHIPS (1951). By the major electrical contracting firms of New York City for sons and daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers. Variable in number.

ENGLISH SCHOLARSHIP FUND (1920). By an anonymous donor. Awarded to a student of good standing who is specializing in English and is in need of help; with the proviso that, if in any year there is no student specializing in English who is particularly deserving of aid, the scholarship may be used to assist a student majoring in some other subject. \$5,000.

GLADYS RENSHAW ESTERBROOK SCHOLARSHIP FUND (1958). In memory of her daughter, Gladys Renshaw Esterbrook '20, by bequest of Minnie R. Esterbrook. Preference is given to applicants majoring in English or French. \$5,000.

MARTHA T. FISKE SCHOLARSHIP FUND (1911). In memory of her sister, Mrs. Martha T. Fiske-Collord, by Anna E. Smith. Awarded to an applicant not a resident of New York City or its suburbs. \$5,000.

FOOD FAIR SCHOLARSHIP (1954). By the Food Fair Stores Foundation for employees and sons and daughters of employees of Food Fair Stores.

HELEN JENKINS GEER SCHOLARSHIP FUND (1940). In memory of her mother, Helen Jenkins Geer '15, by Helen Hartley Geer '40. Awarded annually, after conference with the donor. \$5,000.

VIRGINIA GILDERSLEEVE INTERNATIONAL SCHOLARSHIP FUND (1937). In honor of the international work of Dean Emeritus Gildersleeve, by Charles R. Crane. Awarded annually to a foreign student coming to Barnard to study. \$15,100.

EMMA HERTOZ SCHOLARSHIP FUND (1904). With gifts from residents of Yonkers, New York. Awarded, in conference with the faculty of the Yonkers High School, to a graduate of that school. \$3,000.

MARION ALICE HOEY FUND (1944). In memory of Marion Alice Hoey '14, by Nellie Poorman. Preference is given to applicants studying Greek and Latin. \$2,000.

LILLIA BABBITT HYDE SCHOLARSHIP FUND (1953). By the Lillia Babbitt Hyde Foundation. Awarded to premedical students. \$25,000.

CHARLOTTE LOUISE JACKSON SCHOLARSHIP FUND (1928). In memory of Charlotte Louise Jackson, by bequest of her sister, Fannie A. Jackson. Awarded to a graduate of a Yonkers High School selected by or under the direction of the Board of Education of Yonkers. \$5,000.

MARY E. LARKIN JOLINE SCHOLARSHIP FUND (1927). By bequest of Mary E. Larkin Joline. Awarded to a student who is specializing in music. \$10,000.

WERNER JOSTEN SCHOLARSHIP FUND (1955). With a gift from Mrs. Werner Josten. Preference is given to a student majoring in music, but if in any year no such student is eligible, the scholarship may be awarded to a student majoring in some other field. \$25,916.

JESSIE KAUFMANN SCHOLARSHIP FUND (1902). In memory of his daughter, Jessie Kaufmann, by Julius Kaufmann. Awarded on the merits of entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. It may be held for the entire college course. \$4,000.

KIMBALL FELLOWSHIP FUND (1938). By bequest of Lillian Emma Kimball. Awarded to a woman from Spain or one of the Spanish-American countries who shall pursue a year of graduate or undergraduate study at Barnard or elsewhere, under the direction of the Barnard Department of Spanish. \$32,883.

ELEANOR KINNICUTT SCHOLARSHIP FUND (1911). In memory of Mrs. Francis P. Kinnicutt, a Trustee of Barnard College. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

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CAROLINA MARCIAL-DORADO SCHOLARSHIP FUND (1953). In memory of Professor Carolina Marcial-Dorado, for many years head of the Barnard College Department of Spanish. Awarded to a student from Spain, or to a Spanish major continuing graduate studies in the United States or abroad. If at any time there is no applicant eligible for the grant, it may at the discretion of the department be awarded to a student who is majoring in Spanish. \$15,377.

EUGENE F. AND MINNIE GOUGER MC GOWAN SCHOLARSHIP FUND (1955). By an anonymous donor. Preference is given to candidates from Mecklenburg County, North Carolina. If in any year no such candidate is eligible, the scholarship may be awarded to a student or students from other areas. \$10,000.

FANNIE MOULTON MC LANE SCHOLARSHIP FUND (1961). By bequest of Fannie Moulton McLane '07. Awarded for tuition to deserving students who are citizens of the United States of America, with preference given to those, if any, who satisfactorily establish that they are of Colonial or Revolutionary ancestry, or the descendants of a Civil War soldier. \$7,500.

MRS. DONALD MC LEAN SCHOLARSHIP FUND (1906). By the New York City Chapter of the Daughters of the American Revolution. Awarded, in conference with a representative of the Chapter, to a student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course. \$3,000.

FERRY STARR MORGAN SCHOLARSHIP FUND (1959). In memory of her father, by bequest of Grace B. Morgan '19. Awarded to a student who is majoring in music or philosophy. \$10,000.

MARY BARSTOW POPE SCHOLARSHIP FUND (1913). In memory of Mary Barstow Pope, teacher in Miss Chapin's School, by her friends, her fellow teachers, and her pupils. Open to any undergraduate for the whole or any part of her course, and awarded on the nomination of a self-perpetuating committee representing the founders. \$4,000.

PUBLIC SERVICE SCHOLARSHIP FUND (1934). By the Women's Organization for National Prohibition Reform. Awarded to young women of exceptional ability, interested in following a career of public service in the field of political science, who show special promise of future usefulness in the public service. Awarded at the discretion of the Faculty of Barnard College to one or two students in their junior or senior years. In the case of a particularly promising student the Faculty may, at its discretion, extend the award to cover one, two, or three additional years of graduate study at an approved college or university in order to encourage young women of exceptional ability to complete a course of study which will fit them for service in public life. \$30,000.

LUCILLE PULITZER SCHOLARSHIP FUND (1899). In memory of his daughter, Lucille Pulitzer, by Joseph Pulitzer. Three are restricted to students from the City of New York; eight are for resident students. \$176,459.

AMELIA AGOSTINI DE DEL RÍO SCHOLARSHIP FUND (1955). In honor of Amelia de del Río, Chairman of the Department of Spanish from 1942 to 1962. Awarded to a student from Mrs. de del Río's native island of Puerto Rico. If at any time there is no applicant from Puerto Rico eligible for the grant, it may, at the discretion of the department, be awarded to a student who is majoring in Spanish. \$21,333.

DR. HARRY ROSENSTEIN SCHOLARSHIP FUND (1967). In memory of Dr. Harry Rosenstein by his wife, Bertha Z. Rosenstein, and daughter, Gertrude L. Rosenstein '48. Awarded to a premedical student. \$5,000.

JOAN ROSOF SCHOLARSHIP FUND (1964). By Mr. Murray Rosof in honor of his daughter, Joan Rosof '61. Awarded to qualified students with the wish, but not the directive, that preference be given to his descendants or, in the absence thereof, to students from the State of New York. \$5,315.

FELIX ST. GEORGE SCHOLARSHIP (1955). In memory of her father, Felix St. George, by bequest of Ida St. George. Awarded to an incoming freshman whose subject of interest is a science or premedical course, more particularly physics, chemistry, or biology. \$7,455.

DOROTHY K. SCHEIDELL SCHOLARSHIP FUND (1965). In memory of Dr. Dorothy K. Scheidell '28, by her family, classmates, and friends. Awarded to a premedical student. If in any year no student qualifies for the award, it may be deferred until the following year. If no student qualifies over a three-year period, the accumulated income may be awarded to any able student with financial need. \$5,345.

LILLIAN SCHOEDLER SCHOLARSHIP FUND (1967). By bequest of Lillian Schoedler '11. Income and/or principal awarded to deserving students with financial need who have shown promise of qualities of leadership and/or potentialities for future civic or social usefulness. Awards preferably distributed in small amounts to many students. \$65,860.

FRED CURTIS SMITH MEMORIAL SCHOLARSHIP FUND (1955). In memory of Fred Curtis Smith, at the time of his death Vice President and Mortgage Officer of the Bowery Savings Bank. \$57,000.

HILDA STABER SCHOLARSHIP FUND (1967). By bequest of Hilda Staber '05. Awarded to foreign students of character and ability. \$25,000.

EMMA A. TILLOTSON SCHOLARSHIP FUND (1910). By Mrs. Luther G. Tillotson. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

CLARA BUTTENWIESER UNGER MEMORIAL FUND (1938). In memory of his daughter, Clara Buttenwieser Unger '13, by Joseph L. Buttenwieser. Awarded annually to assist through her senior year a student whose subject of major interest is government, and who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution. \$2,500.

HELEN ELIZABETH VOSBURGH SCHOLARSHIP FUND (1934). In memory of Helen Elizabeth Vosburgh '25, by bequest of Katherine G. Lippke. Preference is given to a self-supporting student. \$5,000.

GERTIE EMILY GORMAN WEBB SCHOLARSHIP FUND (1953). By Charles Webb. Awarded to a student nominated by the Department of History. \$4,990.

ALMA GLUCK ZIMBALIST SCHOLARSHIP FUND (1940). By bequest of Alma Gluck Zimbalist. Awarded annually to a student who wishes to major in political science. \$10,000.

SCHOLARSHIPS—ESTABLISHED ON A TEMPORARY BASIS

BARNARD-IN-BROOKLYN CLUB SCHOLARSHIP (1944). A tuition scholarship, with variable stipend. Awarded annually, with preference given to a student from Brooklyn.

THE BARNARD COLLEGE CLUB OF DETROIT SCHOLARSHIP (1958). A tuition scholarship with variable stipend. Awarded annually, with preference given to a new student from Metropolitan Detroit.

BARNARD COLLEGE

FAIRFIELD COUNTY SCHOLARSHIP (1962). Awarded preferably to entering freshmen from Fairfield County for one year only.

ARLENE HERSHEY MEMORIAL SCHOLARSHIP (1964). A scholarship with variable stipend awarded annually to a senior in the Education Program.

HOLLAND DAMES SCHOLARSHIP (1915). In honor of Fanny I. Helmuth, by the Daughters of Holland Dames. Awarded in conference with a representative of the Society to a student descended from the early Dutch settlers.

HELEN ROSE SCHEUER SCHOLARSHIP (1966). A \$2,000 scholarship awarded annually for five years. Given in honor of Helen Rose Scheuer '16, by her husband, Mr. S. H. Scheuer.

THRIFT SHOP SCHOLARSHIPS (1938). Awarded annually from the proceeds of the Barnard Scholarship Unit of Everybody's Thrift Shop, 330 East 59th Street, New York, N.Y. 10022.

XI. Honors

The following funds were established to honor those who have shown exceptional distinction in their chosen field of study. The income from these funds is awarded each year, unless otherwise stated.

GRADUATE FELLOWSHIPS

DOROTHY ALLEN FELLOWSHIP (1948). Given on recommendation of the Department of Mathematics to a qualified senior graduating in February or June whose major field is mathematics or physics. The recipient will be selected on the basis of scholarship and character. Indications of a promising career and the student's plans for her future will be among the factors given consideration in making the selection. A needy student shall receive the entire sum towards tuition and other expenses of graduate work in mathematics or physics at an institution selected by the student. A student not in need shall receive \$100. In case no candidate is considered sufficiently well qualified, the award will be deferred until the following year. An award of \$800.

ASSOCIATE ALUMNAE OF BARNARD COLLEGE GRADUATE FELLOWSHIP (1963). To be awarded annually to a graduate who shows exceptional promise in her chosen field of work. \$40,000. Applications must be filed in the Alumnae Office by February 1.

GEORGE WELWOOD MURRAY GRADUATE FELLOWSHIP FUND (1930). By George Welwood Murray. Awarded as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work in the field of the humanities and/or the social sciences. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which may then be used by the College for other fellowships or scholarships. Students who have graduated in February are eligible as well as those who are to graduate in June. The holder is to pursue a year of graduate study at Columbia or any other university or college of approved standing. \$20,000.

GRACE POTTER RICE FELLOWSHIP FUND (1935). In memory of his wife, Grace Potter Rice, Instructor and Assistant Professor of Chemistry at Barnard from 1918 to 1934, by Winthrop Merton Rice. Awarded as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which will then be used for other fellowships or scholarships. Students who have graduated in February are eligible, as well as those who are to graduate in June. The holder is to pursue a year of graduate study in natural sciences or mathematics at Columbia or any other university or college of approved standing. \$24,000.

THE HERBERT MAULE RICHARDS FUND (1933). In memory of Professor Richards, a member of the Department of Botany from 1896 to 1928 and Chairman from 1897 to 1928, by the Barnard Botanical Club, former students, and friends. Granted from time to time to further botanical research, under the direction of an approved institution, to a student or an alumna of Barnard College. \$5,000.

ALPHA ZETA CLUB GRADUATE SCHOLARSHIP FUND (1936). By the Alpha Zeta Club, Inc. Awarded at the discretion of the Faculty as an academic honor to a member of the graduating class of Barnard College who, in their opinion, shows promise of distinction in her chosen line of work. It may also be awarded to an outstanding recent Barnard graduate who is a candidate for a higher degree. \$18,038.

BARNARD COLLEGE

WILLIAM MASON SCHOLARSHIP (1928). The William Mason Scholarship in music is awarded periodically on recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music. An award of \$500.

MARGARET MEYER GRADUATE SCHOLARSHIP FUND (1952). In memory of Margaret Meyer Cohen '15, by bequest of Annie Nathan Meyer. Awarded to a student in the graduating class for instruction in secretarial work. \$3,000.

GRADUATE PRIZES

FRANK GILBERT BRYSON PRIZE (1931). In memory of Frank Gilbert Bryson, by bequest of Ella Fitzgerald Bryson '94. The President of the College shall fix the method of selecting a senior who, in the opinion of the class, has given conspicuous evidence of unselfishness and who has made the greatest contribution to Barnard during her college career. Income on \$3,000.

ANNE DAVIDSON PRIZE (1965). In honor of Anne Davidson by the R. W. Davidson family and friends. Awarded at the discretion of the Geology and Geography Department to a graduating senior who has demonstrated continuing interest in the study of Conservation, Natural Resources, or an allied field. The holder is to pursue a year's graduate study in one of these fields at Columbia or any other university of approved standing. Income on \$6,000.

DEAN PRIZE IN GERMAN (1925). By Edward D. Adams for the promotion of the study of German language and literature in Barnard College. Awarded to that member of the senior class who has throughout her course done the best work in German language and literature. Income on \$1,000.

CLARA L. FROELICH MATHEMATICS PRIZE (1962). By Clara L. Froelich '15. Awarded annually by the Department of Mathematics to a member of the graduating class whose work in mathematics has revealed superior ability in grasping the concepts of the subject and has been distinguished by thoughtful devotion to fundamental ideas rather than to the mere mastering of techniques. \$200.

KOHN MATHEMATICAL PRIZE (1892). By Mrs. S. H. Kohn. Awarded to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course. Income on \$1,000.

UNDERGRADUATE AWARDS¹

The income from prize funds is awarded each year.

ESTELLE M. ALLISON PRIZE FUND (1937). By bequest of Estelle M. Allison. Awarded to a student for excellence in literature. \$1,001.

MARY E. ALLISON PRIZE FUND (1937). In memory of her mother, Mary E. Allison, by bequest of Estelle M. Allison. Awarded to a student for general excellence in scholarship. \$1,001.

THE AMERICAN STATISTICAL ASSOCIATION PRIZE, NEW YORK AREA CHAPTER (1960). Awarded annually to the outstanding undergraduate student in statistics. A one-year student membership in the American Statistical Association and \$50.

EDNA HENRY BENNETT MEMORIAL SCHOLARSHIP FUND (1927). In memory of Edna Bennett '15, Lecturer in Zoology, by her friends. The income is to be awarded by the Department of Biology for work at a biological laboratory offering summer courses. \$1,640.

¹ Figures compiled as of January 1, 1968.

BORDEN FRESHMAN PRIZE (1962). A prize of \$200 awarded to the freshman who carries a full academic program throughout the year and receives the highest average in her class. In the event of a tie it will be awarded to the student whose program was the heaviest. During the autumn immediately following, the winner will be announced and the prize awarded, regardless of whether or not she returns to Barnard. \$1,000 from the Borden Company Foundation.

EUGENE H. BYRNE HISTORY PRIZE FUND (1960). In memory of Eugene H. Byrne, Professor of History at Barnard College and Executive Officer of the Department from 1931 to 1949, by his wife, Janet M. Byrne, and friends. Awarded for superior work to an undergraduate majoring in history. \$3,604.

HELEN MARIE CARLSON FRENCH PRIZE FUND (1965). In memory of Helen Marie Carlson by her family and friends. Awarded to the student who writes the best composition in third-year French (French 5), the course which Miss Carlson directed for many years, or a similar course at the discretion of the department. \$3,009.

THE COLUMBIA UNIVERSITY PRESS PRIZE. A copy of the Columbia Encyclopedia is awarded by the Columbia University Press to the member of the sophomore class who has done the best writing for Barnard Bulletin.

HELEN R. DOWNES PRIZE (1964). In honor of Professor Emeritus Helen R. Downes '14, Chairman of the Barnard College Department of Chemistry from 1945 to 1960, by former students and friends. Awarded at the end of her senior year to the student who, in the opinion of the Pre-Medical Committee, shows greatest promise of distinction in medicine or the medical sciences. \$1,893.

THE JENNY A. GERARD MEDAL (1908). The Jenny A. Gerard Gold Medal, given by the Society of the Colonial Dames in America in memory of Mrs. James Gerard, late President of the Society, is awarded annually to the student who is most proficient in Colonial history.

GERMAN PRIZE FUND (1950). Awarded at the end of her junior year to an outstanding student majoring in German. In case the winner does not need scholarship help, the award shall be a prize of \$100 and the balance of the scholarship may be given to another able student majoring in German. If in any year no student qualifies for the award, it may be deferred and given to one or more qualified students at a later date. \$12,000.

KATHARINE REEVE GIRARD PRIZE (1964). In memory of Katharine Reeve Girard '33 by her husband, Professor Richard A. Girard, and her friends. Awarded by the Faculty Committee on Honors to a student whose interests are in the international aspects of the work in her major field. \$930.

HERRMAN BOTANICAL PRIZE FUND (1892). Mrs. Esther Herrman. Awarded to the most proficient undergraduate student in biology. \$1,000.

MEDAL OF THE HISPANIC INSTITUTE IN THE UNITED STATES. Awarded to an undergraduate for the best essay on Cervantes.

FRÉDÉRIC G. HOFFHERR FRENCH PRIZE FUND (1961). In memory of Frédéric G. Hoffherr, Associate Professor of French from 1936 to 1955. The income is awarded annually to a junior for excellence in oral French. The prize is offered to encourage proficiency among students who are not themselves of French background. The winner is chosen on the basis of a ten-minute disquisition. Candidates must have pursued French courses continuously during their Barnard career. \$1,025.

BARNARD COLLEGE

THE ELIZABETH JANEWAY PRIZE FOR PROSE WRITING. A prize of \$500 awarded annually. Open to all undergraduates for a work of prose, whether fiction or non-fiction, which gives the greatest evidence of creative imagination and sustained ability. All undergraduates who intend to enter the prize competition must notify the Chairman of the English Department of their intention to do so by November 1, at which time they will receive detailed instructions as to the requirements. The final manuscripts must be submitted to the chairman by March 15. The prize will be given at the discretion of a board of three judges chosen by the College and the donor.

ELEANOR KELLER PRIZES (1968). One prize, not exceeding \$1,000, to be awarded annually to a member of the junior class, not necessarily a French major, who has an outstanding record in courses of French literature offered by the department. Another prize, not exceeding \$1,000, to be awarded annually to a member of the senior class, not necessarily a French major, who has an outstanding record in courses concerned with French culture. \$42,474.

AMY LOVEMAN MEMORIAL FUND (1956). In memory of Amy Loveman '01, by her friends and classmates. First charge on the income shall be an annual prize of \$100 for the best original poem by a Barnard undergraduate. Terms of the competition will be announced later. The balance of the income shall be allocated to scholarships and shall be known as the Amy Loveman Scholarship. \$20,100.

THE LENORE MARSHALL PRIZES FOR WRITING (1960). For excellence in poetry and prose contributed to the undergraduate magazine, *Focus*. Adjudged by the donor, Mrs. Marshall, in consultation with the Department of English and the editors-in-chief, and awarded to promising young writers in need of financial aid. Two at \$50 each.

SIDNEY MINER POETRY PRIZE FUND (1962). In memory of Sidney Louise Miner '14, by bequest of Rosemary Alice C. Thomas. Awarded annually by the Department of English to the senior major who has shown distinction in the reading, writing, and study of poetry: the judges to be members of the Department of English. \$5,000.

THE WILLIAM PEPPERELL MONTAGUE PRIZE FUND (1949). By William P. Montague, Lecturer, Instructor, and Professor of Philosophy at Barnard College from 1903 to 1949. Awarded to a student of Barnard College who, in the opinion of the members of the Department of Philosophy, shows promise of distinction in the field of philosophy. \$4,236.

THE HELEN PRINCE MEMORIAL PRIZE FUND (1921). In memory of his daughter, Helen C. Prince '22, by Julius Prince. Awarded to an undergraduate student for excellence in dramatic composition. \$1,200.

KATHARINE E. PROVOST MEMORIAL PRIZE FUND (1949). In memory of Katharine E. Provost. Miss Provost was for twenty-three years Secretary and Assistant to the Controller of Barnard College and, at the time of her death, Superintendent of Building and Grounds. Awarded for superior work by an undergraduate major in economics. \$1,000

CAROLINE GALLUP REED PRIZE FUND (1916). In memory of her mother, Mrs. Sylvanus Reed, by Mrs. William Barclay Parsons for the recognition of *outstanding work either in the field of the origin of Christianity and early church history or in the general field of the history and theory of religion*. Awarded to the student who shows the highest excellence in one of these fields of work. The award is made partly on the basis of an essay to be handed in by April 1. Details regarding the scope of the essay may be obtained from the Department of Religion. \$1,000.

MARIE REIMER SCHOLARSHIP FUND (1953). In honor of Professor Emeritus Marie Reimer, for many years Chairman of the Barnard College Department of Chemistry, by former students and friends. Awarded annually at the end of her junior year to an outstanding student majoring in chemistry. In case the winner does not need financial help, the award shall be a prize, the amount to be recommended by the Chemistry Department. The balance of the income shall be awarded by the Director of Financial Aid to an outstanding student at the end of her junior year who is majoring in chemistry and who has financial need. The students receiving financial aid from this fund shall be informed of the source of the award. \$5,035.

BETTINA BUONOCORE SALVO PRIZE FUND (1966). By bequest of Bettina Buonocore Salvo '16. Awarded annually to a deserving graduate or other student studying Italian, selected by the Department of Italian. \$5,000.

SYLVIA KOPALD SELEKMAN PRIZE FUND (1960). In memory of Sylvia Kopald Selekman '20, by Janet Robb. Awarded by the Department of Economics to the freshman who is doing the best work in introductory economics. \$1,000.

SPANISH PRIZE (1959). To be awarded annually to a Spanish major who, in the opinion of the department, has done the most distinguished work in the Spanish language and literature. A prize of \$100, the income on the Spanish Prize Fund of \$2,500.

SPERANZA ITALIAN PRIZE FUND (1911). In memory of Carlo Leonardo Speranza, Instructor and Professor of Italian at Barnard College from 1890 to 1911, by a former student. Awarded to a student for excellence in Italian. \$1,000.

JEAN WILLARD TATLOCK MEMORIAL PRIZE FUND (1917). In memory of Jean Willard Tatlock '95, by her friends. Awarded to the undergraduate student most proficient in Latin. \$1,250.

ROSEMARY THOMAS PRIZE FUND IN FRENCH (1966). In honor of the poet Rosemary Thomas, by bequest of Helen Marie Carlson, a long-time member of the Barnard College French Department, the income to be awarded annually to the undergraduate student preferably, but not necessarily, a French major, who, in the opinion of the members of the Barnard College French Department, has shown the greatest evidence of a special sensitivity and awareness in her study of French poetic literature. \$10,000.

VON WAHL PRIZE (1915). In memory of Constance von Wahl, '12, President of the Undergraduate Association. Awarded to a student for excellence in biology, on the understanding that it is to be used to advance her knowledge in that field. If in any year no student stands out as eminently deserving of the prize, it is not awarded. \$1,300.

The following prizes of Columbia University are by their terms open to students of Barnard College:

THE ACADEMY OF AMERICAN POETS PRIZE. A prize of \$100, established by the Academy of American Poets for the best poem or group of poems by a student. Awarded by the Department of English of Columbia University at the close of the Spring Term. Manuscripts should be submitted prior to April 1. For further information consult the Chairman of the Department of English and Comparative Literature of the University.

BARNARD COLLEGE

BENNETT PRIZE. A prize established through a gift of \$1,000 from James Gordon Bennett may be awarded by the Faculty of Political Science, with the approval of the Chairman of the Bennett Prize Committee, for the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States. The competition is open to students not holding a Bachelor's degree who pursue satisfactory courses in political science. Manuscripts should be submitted prior to the last day of classes of the Spring Term. For additional information consult Professor Joseph A. Rothschild.

THE BUNNER MEDAL. The H. C. Bunner Gold Medal, in memory of Henry Cuyler Bunner, is awarded at Commencement to the candidate for a Columbia degree who shall present the best essay on any topic dealing with American literature selected in connection with course or seminar work in American literature and approved by the Chairman of the Bunner Prize Committee. For additional information consult Professor Carl Hovde.

EARLE PRIZE IN CLASSICS. A prize of \$50, in memory of Mortimer Lamson Earle, Instructor in Greek in Barnard College from 1889 to 1895 and from 1898 to 1900 and Professor of Classical Philology from 1900 to 1905, is awarded to a candidate for the degree of Bachelor of Arts, for excellence in sight translation of passages of Greek and Latin. For further information consult Professor James A. Coulter.

THE CAROLINE PHELPS STOKES PRIZE. The Caroline Phelps Stokes Prize of about \$45 is awarded at Commencement to that student who has been a degree candidate for at least one academic year in Columbia College or Barnard College and who has written the best essay on any topic approved by the Stokes Prize Committee, which has been presented in course or seminar work. Material should be submitted by January 1. For additional information consult Professor Joseph A. Rothschild.

VAN RENSSELAER PRIZE. To the candidate for a degree in Columbia University who is the author of the best example of English lyric verse. Material must be submitted by April 1. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages. Income of the Marianna Griswold Van Rensselaer Fund, about \$50. For additional details consult the Department of English and Comparative Literature.

WOODBERRY PRIZE. Established by the Woodberry Society as a memorial to George Edward Woodberry. Awarded every second year to an undergraduate student of the University for the best original poem. Material must be submitted by April 1. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages, unless a single poem is submitted in excess of that amount. If, in the opinion of the committee of judges, no poem submitted in any prize year is worthy of this award, the prize will not be given. Not awarded in 1968-69. Value of prize about \$100. For additional details consult the Chairman of the Department of English and Comparative Literature.

The following prize is also open to Barnard students:

SUSAN HUNTINGTON VERNON PRIZE. A prize of about \$25, the annual income of the fund established in 1941 by pupils and friends of Mrs. Vernon, in tribute to her work at the Hispanic Institute, and augmented by her in 1943. The prize is awarded, on recommendation of the Chairman of the Department of Spanish, for the best original essay written in Spanish by a senior whose native language is not Spanish, but who is taking language courses at Barnard, Mount Holyoke, Radcliffe, Smith, Vassar, or Wellesley.



XII. Associate Alumnae of Barnard College

The Associate Alumnae of Barnard College is made up of over fourteen thousand members from all states of the Union and more than sixty foreign countries. The Associate Alumnae serve the College in three important ways: by interpreting Barnard to the community; by keeping local secondary school students informed about Barnard; and by aiding in the support of the College.

The Alumnae Association functions through a group of officers, directors, and alumnae trustees elected by members of the Association. The central office of the Associate Alumnae is 118 Milbank Hall.

Barnard College Clubs, the Alumnae Council with nationwide membership, and a ground of qualified and authorized alumnae make it possible to find spokesmen for Barnard at distances far from New York. Students who are considering Barnard may find it helpful to talk personally with the Barnard alumnae living nearest them. A list of these representatives as well as officers of the Associate Alumnae is given below.

OFFICERS OF THE ASSOCIATE ALUMNAE

Mrs. JOHN R. SARGENT, President
Miss FRANCOISE A. KELZ, Vice-President
Mrs. ALDEN O. SHERMAN, Vice-President
Mrs. JAMES N. LAND, Jr., Secretary
Miss JEAN WALLACE, Executive Secretary

DIRECTORS

Mrs. HOWARD L. AUERBACH	Mrs. ARNOLD GOLDBERG
Mrs. ROYAL M. BECKWITH	Mrs. IRVING HELD
Mrs. MICHAEL BLOW	Mrs. JOSEPH MORSE
Mrs. F. PHILIP BROTHERTON	Mrs. TERRENCE O. NORRIS
Mrs. NICHOLAS J. COOLIDGE	Miss RUTH VON ROESCHLAUB
Mrs. ALLERTON CUSHMAN, JR.	Miss GERTRUDE L. ROSENSTEIN
Mrs. WILLIAM D. GETTEL	Mrs. ELWOOD SIEGEL

ALUMNAE TRUSTEES

Mrs. BRUNO V. BITKER	Mrs. N. LAWRENCE HERRICK, JR.
Mrs. PAUL H. FLINT	Mrs. JOHN R. SARGENT

ALUMNAE REPRESENTATIVES

ALABAMA

Birmingham

— Mrs. WILLIAM E. DAVIS
3419 East Briarcliff Road

BARNARD COLLEGE

ARIZONA

Tempe — MRS. THOM VERHAVE
3516S Newberry Road

Tucson — MRS. HERMAN N. SLOSS
5325 East Baker Street

ARKANSAS

Little Rock — MRS. NORMAN E. HOLCOMB
2903 North Pierce

CALIFORNIA

Carmel — MRS. TALCOTT BATES
Route 3, Box 575

Carmichael — MRS. THOMAS BAILEY
2513 El Vita Way

Del Mar — MRS. DOUGLAS M. FOUQUET
1540 Forest Way

Fair Oaks — MRS. ROBERT BRADBURY
4617 Minnesota Avenue

Monterey — MRS. WERNER SEWALD
40 Via Cimarron

Palo Alto — MISS JUDY TERRY
426 Waverly, Apt. 1

Pasadena — MRS. NATHAN PATIGALIA
285 Glenullen Drive

San Francisco — MRS. MAX SEMEL
928 Castro Street

Santa Barbara — MRS. I. SAMUEL RUGG
1135 Oriole Road

Tarzana — MRS. GEORGE J. HOAG
4629 Conchita

COLORADO

Boulder — MRS. CARL C. ZIER
2235 Glenwood Drive

Denver — MRS. CARL E. FEHRENBACH
3232 South Josephine Street

— MRS. CLYDE R. HAMPTON
1633 South Ivy Way

ASSOCIATE ALUMNAE

CONNECTICUT

- Darien — MRS. WILLIAM HUFFERD
10 Queenslane
- West Hartford — Miss LOIS CAMPAINÉ
254 South Main Street
- Weston — MRS. ALDEN O. SHERMAN
Weston Road

DELAWARE

- Wilmington — MRS. EVAN K. HOUSEMAN
106 Gibson Avenue

DISTRICT OF COLUMBIA

- Washington — MRS. CHARLES B. RUTTENBERG
4735 Butterworth Place, N.W.

FLORIDA

- Coral Gables — MRS. WILLARD R. BROWN
3720 Harlano Street

FRANCE

- Paris — MRS. EPIMENIDES HAIDEMENAKIS
2 Rue Furstenberg

GEORGIA

- Atlanta — MRS. EDWIN F. GOODMAN
3740 Cloudland Drive, N.W.
- Decatur — MRS. DON M. WARDLAW
736 Kirk Road

HAWAII

- Kailua,
Oahu — MRS. HARRY MACD. SIEGMUND
616 Uluhala Street

ILLINOIS

- Lombard — MRS. THOMAS P. HECKMAN
533 Edgewood Road, Flowerfield
- Naperville — MRS. J. C. VAN DER WIEL
849 E. Hillside

BARNARD COLLEGE

Urbana — Miss MARY G. BREMER
805 West California Street

— Mrs. THOMAS A. READ
507 East Harding Drive

INDIANA

Indianapolis — Mrs. VERTICE BELCHER
735 Kessler Boulevard, East Drive

West Lafayette — Mrs. JOHN S. KARLING
1219 Tuckahoe Lane

KANSAS

Goodland — Miss JO CLARE MANGUS
P.O. Box 397

Lawrence — Mrs. ALFRED E. JOHNSON
622 Ohio

Topeka — Mrs. B. A. HALSTEAD, JR.
2316 Fairlawn Court

Wichita — Mrs. WILLIAM R. SMITH
358 North Fountain Road

MARYLAND

Kensington — Mrs. JAMES L. PARRIS
9909 Hillridge Drive

MASSACHUSETTS

Pittsfield — Mrs. ELIN B. OZDEMIR
497 Holmes Road

Springfield — Mrs. ARTHUR A. LEVIN
1764 Parker Street

Sudbury — Mrs. JAMES H. BROWNLOW
80 Prides Crossing Road

Wellesley — Mrs. PAUL W. FAGER
42 Ingraham Road

West Roxbury — Miss PATRICIA J. McARDLE
458 La Grange Street

ASSOCIATE ALUMNAE

MICHIGAN

Detroit

— MRS. FREDERICK J. DYKSTRA
471 Hildale Avenue West

— MRS. PATRICK ENNIS
18707 Gainsborough Road

MINNESOTA

Minneapolis

— MRS. VIRGIL HAMMACK
4108 Meadowbrook Lane

MISSOURI

University City

— MRS. L. C. DeVOTO, JR.
7151 Cambridge

NEW JERSEY

Mountain Lakes

— MRS. HERBERT MECKE
34 Crane Road

NEW YORK

Berkshire

— MRS. CHARLES E. KIESSLING, JR.
R.D. 2

Buffalo

— MISS CHARLOTTE B. JOHNSON
153 Allen Street

Cortland

— MRS. CLAYTON J. MORRIS
4 Lebanon Drive

Glens Falls

— MRS. GEORGE Y. MUSE
19 Grant Avenue

Ithaca

— MISS LINDA McALISTER
100 Fairview Square

Jamestown

— MRS. STEPHEN H. CULLINANE
110 East Sixth Street

Rochester

— MRS. WALLACE R. RUST
523 Britton Road

Syracuse

— MRS. RALPH LONGSWORTH
1216 Meadowbrook Drive

NORTH CAROLINA

Raleigh

— MRS. ROBERT M. CORNISH
2130 Cowper Drive

BARNARD COLLEGE

OHIO

Cincinnati — MRS. HARRY W. WHITTAKER
2497 Grandin Road

Toledo — MRS. ARTHUR F. JAMES
4562 Penridge Road

OKLAHOMA

Oklahoma City — MRS. JACKSON M. BARTON
3016 Red Oak Road

OREGON

Albany — MRS. STEPHEN YIH
Box 274, Route 2

Eugene — MRS. EDGAR STORMS
2780 Onyx Street

Portland — MRS. T. G. WILLIAMS
11990 S. W. Butner Road

PENNSYLVANIA

Bethlehem — MRS. EDWARD C. PERKINS
72 East Market Street

Pittsburgh — MRS. FRANK L. JONES
4625 Fifth Avenue, Apt. 601

Prospectville — MRS. HERBERT ANDERSON
Winding Brook Farm

PUERTO RICO

Ponce — MRS. MARTIN LANDESBERG
Box 1506

Santurce — MRS. ETIENNE TOTTI, JR.
1906 Lucchetti Street

RHODE ISLAND

Providence — MRS. JOHN R. COLEMAN
101 Keene Street

TENNESSEE

Memphis — MRS. HENRY S. ZURHELLEN
1978 Nellie Road

ASSOCIATE ALUMNAE

TEXAS

- Dallas — MRS. CLIFFORD K. WILLIAMS
4215 Ridge Road
- Houston — MRS. WILLIAM T. FLEMING, JR.
2064 Timber Lane
- MRS. ROBERT N. FULTON
14411 Cindywood Street
- Tyler — MRS. JAMES R. MONTGOMERY
1015 Watkins Street

VERMONT

- Middlebury — MRS. LESLIE C. BIGELOW
15 Chipman Heights

VIRGINIA

- Norfolk — MRS. EDWARD R. WILLCOX, JR.
518 Pembroke Avenue
- Richmond — MRS. HETH OWEN, JR.
3 Greenway Lane

WASHINGTON

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Jamaica — MRS. JOHN T. M. GIRVAN
50 Daisy Avenue

WISCONSIN

- Milwaukee — MRS. WILLIAM F. GOODWIN, JR.
329 Lake View Avenue
- Port Edwards — MRS. TERRENCE O. NORRIS
P.O. Box 160

XIII. Statistics†

		1889	1899	1909	1914	1919	1924	1929	1934	1939	1944	1949	1954	1963	1964	1965	1966	1967
		to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
		1890	1900	1910	1915	1920	1925	1930	1935	1940	1945	1950	1955	1964	1965	1966	1967	1968
UNDERGRADUATES, REGULAR:																		
Seniors	40	62	123	87	126	227	181	164	208	260	245	390	355	375	361	437		
Juniors	40	122	110	190	259	237	220	191	314	277	340	381	414	394	475	522		
Sophomores	37	109	191	193	234	247	226	210	314	272	317	405	391	447	504	475		
Freshmen	14	54	188	240	224	271	311	267	246	324	271	304	349	415	454	459	457	23
Unclassified students	14	171	481	664	694	947	1076	997	954	1216	1097	1207	1540	1583	1684	1824	1915	
SPECIAL STUDENTS:																		
Matriculated	21	24	32	39	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Nonmatriculated .....	....	30	32	22	33	28	29	31	21	15	20	25	19	11	11	21		
Departmental (1889-1896)	22	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Music students	....	41	....	5	....	....	....	....	....	....	....	....	....	....	....	....	....	....
(1896-1904, 1914-1915)	22	62	54	69	61	33	28	29	31	21	15	20	25	19	11	11	21	
GRADUATE STUDENTS (1890-1900)	82	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
TOTAL REGISTRATION	36	315	535	733	755	980	1104	1026	985	1237	1112	1227	1565	1602	1695	1835	1935	
DEGREES CONFERRED:																		
A.B.	39	88	141	139	198	247	221	206	270	303	258	403	367	391	395	....	....	....
B.S. (1909-1918)	18	2	8	5	....	....	....	....	....	....	....	....	....	....	....	....	....	....
A.M. (1898-1900)	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

TOTAL BACHELOR'S DEGREES CONFERRED 1893-1967: A.B., 14,827, B.S., 77.

† These figures represent registration in the Autumn Term plus students admitted in the Spring Term.

XIV. Examination Groups

Group (1) M W F 9

Biology 1–2
Biology 6
Chemistry 2
Economics 17, 18
English 53
English 90
Philosophy 1x, 1y (I)

Group (2) M W F 10

Art History 51; 52
Art History 67
Chemistry 51; 54
Economics 1; 2 (I)
Economics 27; 28
English 66, 67
French 25, 26
French 34
Geology 1; 2
Government 23; 24
Greek 11; 12
History 53; 54
Mathematics 7, 8
Music 1–2 (I)
Philosophy 1x, 1y (II)
Philosophy 35, 36
Psychology 9; 12
Psychology 25
Sociology 1–2 (I)
Sociology 32; 47
Spanish 15–16
Spanish 20

Group (3) M W F 11

Chemistry 41, 42
Economics 1; 2 (II)
English 41; 42 (I)
English 63; 64
French 32x; 36
Government 1; 2
History 51; 52
Latin 3; 4
Latin 33
Linguistics 26
Mathematics 15, 16
Music 1–2 (II)
Philosophy 1x; 1y (III)
Philosophy 43; 44
Psychology 27; 30
Sociology 1–2, II
Sociology 21; 22
Spanish 5–6
Spanish 17, 18

Group (4) M W F 1:10

Art History 43, 44
Biology 8; 15
Economics 1; 2 (III); 7; 8
English 41, 42 (II)
English 68
French 21y
German 1y–2x
German 3y; 28
Latin 1–2
Philosophy 5; 84
Psychology 17
Psychology 20; 21
Sociology 20; 21
Sociology 33; 34
Spanish 20; 23

Group (5) M W F 2:10

Art History 1–2
Art History 54
Biology 10
Class. Lit. 32
Economics 1; 2 (IV)
Economics 25, 26
English 69; 88
English 78
French 14
German 45, 46
Government 11; 12
Government 13, 14
Government 28x; 27y
Greek 1–2
History 55x
History 57, 58
History 64; 65
Linguistics 21–22
Philosophy 38
Philosophy 75
Philosophy 85
Religion 26
Sociology 1–2 (III)
Sociology 43, 44

Group (6) Tu Th 9:10–10:25

Anthropology 1–2
Art History 57
Chemistry 1; 8
English 58; 76
English 78
French 40
Government 19
Government 25; 26
History 17x

History 19, 20
Mathematics 31; 40
Philosophy 8; 41
Psychology 16
Psychology 38
Sociology 1–2 (IV)
Sociology 2x–1y (I)
Spanish 25, 26

Group (7) Tu Th 10:35–11:50

Biology 9
Chemistry 52
Economics 1–2 (IV)
English 55
French 22x; 33
French 38
German 36
Government 7
History 3, 4
History 11, 12
Mathematics 35, 36
Philosophy 1x; 1y (IV)
Philosophy 77
Physics 3–4
Religion 17, 18
Sociology 1y (II)

Group (8) Tu Th 11

Art History 75; 76
Art History 81
Biology 7
Economics 29; 30
English 73; 74
Government 18
Psychology 5; 8
Psychology 57; 68
Sociology 41; 42
Spanish 31–32

Group (9) Tu Th 2:10–3:25

Art History 65; 66
Chemistry 44
Economics 16; 33
English 79; 80
English 85; 86
French 37
German 27; 56
Government 17
History 13, 14
History 21; 22
History 27, 28
Linguistics 41
Philosophy 2x; 2y
Philosophy 32; 47
Religion 25

Religion 31
Spanish 13y, 14x

Group (10) M W F 3:10

Art History 77; 78
Sociology 39; 40

Group (11)

Psychology 1x or 1y (Sections)

Group (12)

English 72
German 5y; 11
Music 1–2 (III)
Philosophy 1x; 1y (V)

Group (13)

Art History 64; 71
Art History (English) 84
Education 3–4
Linguistics 23
Modern Greek 1–2
Modern Greek 3, 4

Group (14)

French 1–2 (Sections)
French 3; 4; 4x (Sections)
French 5; 6; 5y, 6x (Sections)
French 21–22

Group (15)

German 1–2 (Sections)
German 3, 4 (Sections)
German 5; 6 (Sections)

Group (16)

Spanish 1–2 (Sections)
Spanish 3; 4 (Sections)
Spanish 7; 8 (Sections)
Russian 1–2 (Sections)
Russian 3–4 (Sections)
Russian 9, 10

Group (0)

American Studies 1–2
American Studies 3–4
Anthropology 41–42
Anthropology 51–52
Art History 97–98
Biology 61; 62
Biology 71
Chemistry 57; 58
Chemistry 63
Chemistry 87; 88
Economics 51–52

Economics 61; 62
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English 2
English 3; 4
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History 81; 82
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History 91–92
History 93–94
Linguistics 60
Philosophy 39; 40
Philosophy 87–88
Psychology 48x; 48y
Religion 35, 36
Sociology 38
Sociology 87, 88
Sociology 97
Spanish 11, 12
Spanish 33

A.P.

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BEQUEST FORM

General

I, ..., give and bequeath to Barnard College in the City of New York the sum of ... for the uses and purposes of the said Corporation.

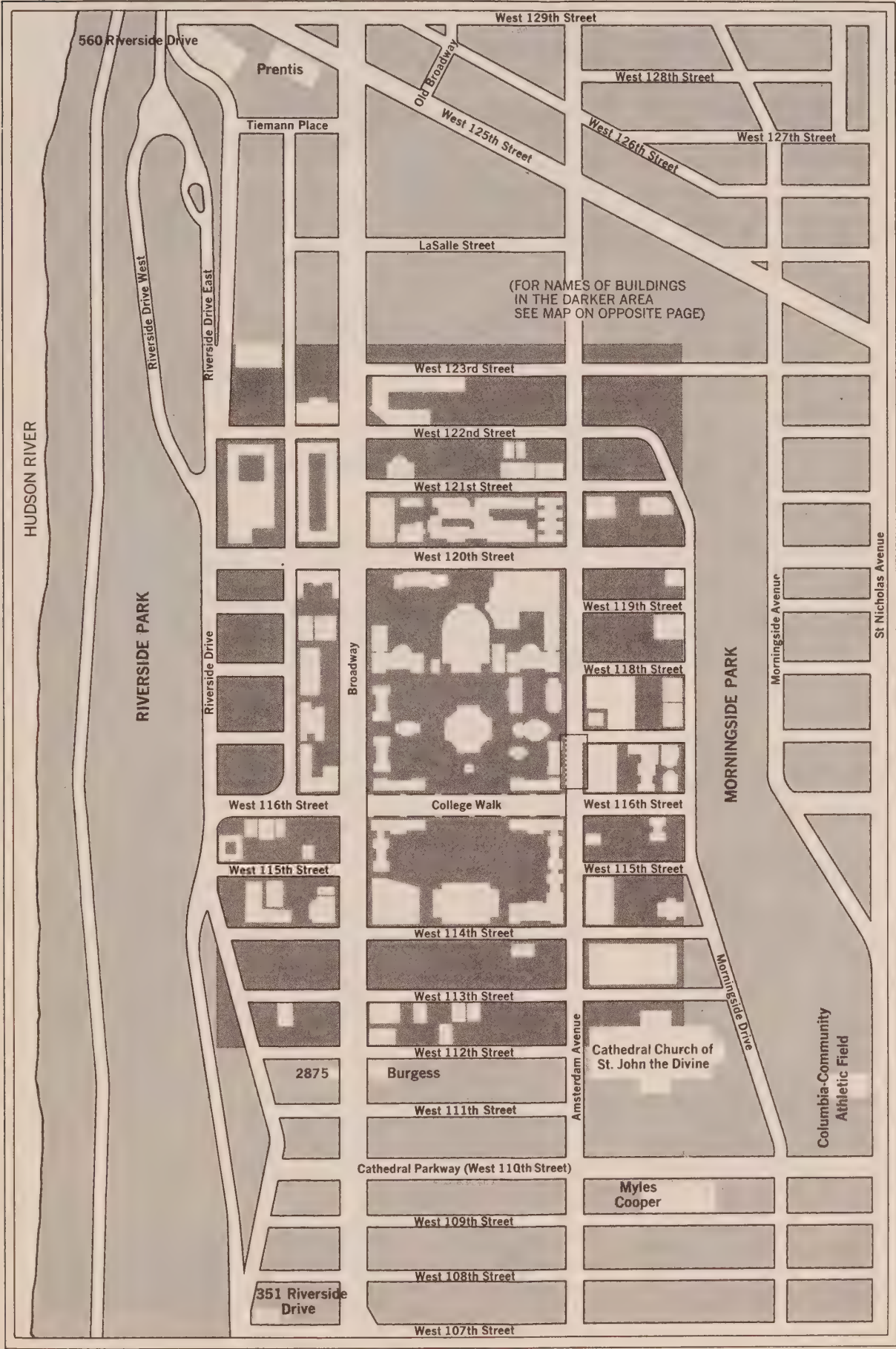
Endowment

I, ..., give and bequeath to Barnard College in the City of New York the sum of ... to be added to the General Endowment of the said Corporaion.

For a Specific Purpose

I, ..., give and bequeath to Barnard College in the City of New York the sum of ... to be used for the purposes of ...
...
to be known as the ... Fund. If at any time in the judgment of the Trustees of the said Corporation, the need of income for such purposes no longer exists, the Trustees of the said Corporation shall be, and hereby are, authorized to use the income from the Fund for such purposes as shall in their judgment promote the interests of the College.

The Morningside Heights Area of New York City



The Morningside Campus & Environs

